

TEECO®

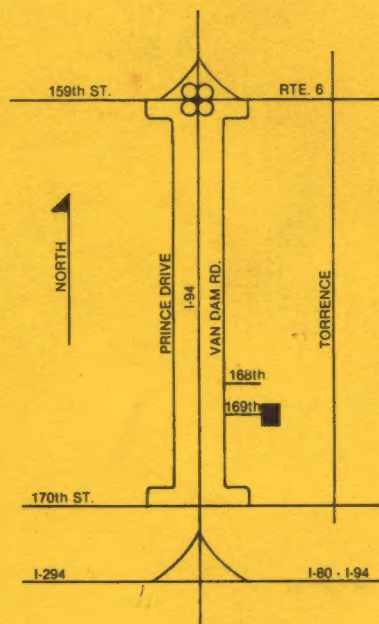
TOTAL ENVIRONMENTAL EQUIPMENT, CO.

— WHOLESALE —

1981 - OUR 10th YEAR OF SERVICE

IN STOCK PRODUCTS

Furnaces
Boilers
Air Conditioning
Heat Pumps
Electric heating
Hot Water Heaters
Motors
Refrigeration Parts
Controls
Humidifiers
Fireplaces
Duct Work
Tools
Electrical Materials
Filters
Fans
Test Instruments
Registers



16900 VAN DAM ROAD - SOUTH HOLLAND, ILLINOIS 60473
Warehouse and Offices — Phone: (312) 596-1212

1981



ameri-therm

THERMALLY ACTUATED VENT DAMPER

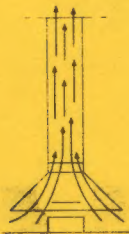
The VW saved millions of Americans millions of dollars on gasoline. Now the **AMERI-THERM VENT DAMPER** is going to solve a home heating problem that will save millions of Americans millions of dollars.

The Problem

You have a hole in your roof. And every cold day of the year you lose much of the precious gas heat you pay for, through that hole.

The hole? Your furnace vent.

Every time your furnace turns off, the warm air in your home starts escaping. Through the furnace vent. Through the hole in your roof. And on goes the furnace again. Heating the air and running up your gas bill.



WITHOUT DAMPER



WITH DAMPER

The Solution

Close the hole in your roof with an **AMERI-THERM VENT DAMPER**.

This German-designed energy saving device (now manufactured in the U.S.) is thermally actuated. It requires no power source. No gas. No electricity. Based on a law of physics, the heat of your furnace opens special bi-metal "wings" inside the **AMERI-THERM VENT DAMPER**. When the furnace turns off, these "wings" close the furnace vent. The warm air you paid for stays where it belongs. Inside your home. For a much longer time. So the furnace doesn't turn on again for a much longer time.

Economical

AMERI-THERM VENT DAMPERS cost less than electrically or mechanically operated vent dampers. The actual cost of an **AMERI-THERM VENT DAMPER** installation depends upon the size of your furnace vent and its location. Because its operation is based on a law of physics, the **AMERI-THERM VENT DAMPER** always works and requires no electrical wiring. Year after year, it silently goes about its job of saving you money on your gas bill by retaining the gas heat you paid for.

Pays For Itself

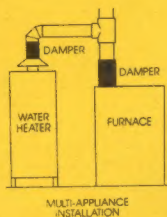
Consider the many cold winter days ahead. Consider the cost of heating your home. And it's going to continue to go up and up. Now consider the amount of heat you lose through that hole in your roof. You can quickly see that the **AMERI-THERM VENT DAMPER** can pay for itself in just a matter of months.



OPEN



CLOSED



MULTI-APPLIANCE
INSTALLATION

American Gas Association Design Certified*

Moreover, it's been proven for more than 10 terrible winters in over 2-million installations in Europe.

And it's backed by a 5-year limited warranty from one of the best known names in the heating industry, American Metal Products Co.

The sooner you call, the sooner you start keeping your gas costs from going through the roof.

Use on Water Heaters!

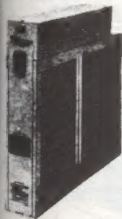
An **AMERI-THERM VENT DAMPER** on your water heater can reduce your heating bill, too. Ask us for details.

AMERI-THERM VENT DAMPERS must be installed by a qualified installer.

*These laboratories tested this device for safety, not energy saving.

MODEL NO	SIZE	HEIGHT	CTN. QTY.	LESS CTN.	FULL CTN.
T300	3"	4 3/4"	6	\$ 64.40	\$ 58.00
T400	4"	5 1/2"	6	72.80	65.60
T500	5"	5 3/4"	6	86.80	78.20
T600	6"	6 1/2"	6	98.00	88.20
T700	7"	6 3/4"	6	112.00	100.80
T800	8"	7 1/4"	6	128.70	116.00

TRION[®] ELECTRONIC AIR CLEANERS



TRIM-T

\$ 396.00

Trim-T dry type compact, duct mount electronic air cleaner available in one size only for 800-2000 CFM applications. Features include split cell design, power supply in all metal encased totally encapsulated module, ON/OFF power switch, safety interlock and push-to-test performance button.

Designed for efficient and economical air cleaning in areas with central heating and/or cooling systems. For sizing convenience, TTM-II is available in 1400 and 2000 CFM models featuring totally encapsulated solid state power supplies for dependability and ease of service. The 1400 and 2000 CFM models feature duo lightweight aluminum cells with extended ground plate design and wide plate spacing to minimize arcing and provide greater dirt holding capacity.

SPECIFICATIONS

MODEL	Trion Trim-T
UNIT PART NO.	425599-001
CAPACITY	800-2000 cfm
TEMP RATING	40°F to 125°F (4°C to 2°C)
POWER RATING	120 volts 60 Hz 1 phase
OUTPUT	1.2 milliamps 6500 volts DC
POWER CONSUMPTION	25 watts maximum
PRESSURE DROP	.03 (in. water) at 800 cfm .17 (in water) at 2000 cfm
UNIT WEIGHT	30 pounds
UNIT DIMENSIONS	4-1/2" D x 20-3/8" H x 24-3/4" W
CELL WEIGHT	5 pounds each
DUCT OPENING	15-1/8" H x 23-1/2" W

TTM-II

Dry type, duct mount electronic air cleaner available in 1000, 1400, and 2000 CFM models. Split cell design in 1400 CFM and 2000 CFM. Power supply in all metal encased module that removes easily for servicing. All Hi-Voltage components are self-enclosed for added protection. Ionizing/Collecting cells are lightweight aluminum and stainless steel construction. Easy to clean and maintain.



SPECIFICATIONS	EACH
TTM-II - 1400 Capacity - 1400 CFM Dimensions - 7-1/16"x19-1/2"x24-7/8" Duct Opening - 22-5/16"x13-7/8" Efficiency - 70% - 95% Pressure Drop - .03 - .14 w.g. (max.)	\$ 512.00
TTM-II - 2000 Capacity - 2000 CFM Dimensions - 7-1/16"x23-1/2"x24-7/8" Duct Opening - 22-5/16"x17-7/8" Efficiency - 70% - 95% Pressure Drop - .03 - .14 w.g. (max.)	\$ 578.00

TRION TABLE-TOP \$ 388.00

Table-Top cleans particulate matter from the air through electrostatic precipitation. Airborne dirt, dust and pollen particles are drawn into the unit by a quiet two speed blower. Particles not caught by the prefilter receive a strong electrical charge in the ionizing section of the cell. Charged particles are attracted to and held by oppositely charged plates in the collecting section until washed. An activated charcoal filter adsorbs odors.



THERMOSTATS AND SUB-BASES

Part No.	Honeywell No.	Remarks	1 LOT	2 LOT
7600-343	T819C 1013	Cooling Only	14.80	14.50
7600-237	T87F1800 & Q539A1006	Comb. Heat/ Cool Deluxe	35.20	34.50
7600-345	T87F1800 & Q539J1006	Comb. Heat/Cool Deluxe For use w/Electric Duct Heater	35.20	34.50
7600-423	T834A 1088 Q634G1017	For use with Electric Heat	30.40	29.80
7601-43	T834A 1261 Q634A1047	For Gas or Oil Fired Units	30.40	29.80
108169	T87F1800	Heating Only	22.80	22.40
THERMOSTAT AND SUB BASE — All are Honeywell				

BLOWER MODULE

Designed for horizontal air flow to be used with "H" type coils only.



Model	HP	Matches	EACH
B-20-36	2-3	CFH-24, 30, 36, QO24H, 30H, 36H	\$ 367.40
B-42-60	3 1/2-5	CFH-48, 60, Q48H, 60H	474.30
7601-37		Optional 4 way Discharge Plenum	206.50
7601-38		B-20-36 B-42-60	249.30

UCH/UCS/UCE SERIES

PRECHARGED INSULATED TUBING

3412 series features 1/4" liquid line, 3/4" suction line 3409 series, 3/8" liquid and 7/8" suction - suction lines fully insulated with Armaflex — 90° elbow provided on Male coupling for attachment to evaporator — Female Quick Connect coupling with charging port for connection to condensing unit.

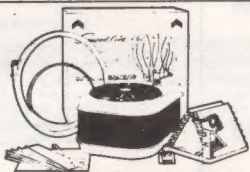
NOTE: Two sets of lines may be joined in the field with a 1000 BTU capacity loss to system.

*Adapter kits, 7600-156B and 7600-191A, are for field installed lines and include a filter drier.

Tubing Model No.	Length	Master Pack Quantity	For Use With	1 LOT	2 LOT
7600-156B*	0'	—	2, 2 1/2, 3 H.P.	72.60	71.00
3411-15	15'	23	2, 2 1/2, 3 H.P.	86.50	84.70
3412-20	20'	14	2, 2 1/2, 3 H.P.	104.20	102.00
3412-25	25'	14	2, 2 1/2, 3 H.P.	121.40	118.80
3412-35	35'	8	2, 2 1/2, 3 H.P.	161.40	157.90
3412-45	45'	8	2, 2 1/2, 3 H.P.	202.30	198.00
7600 191A*	0'	—	3 1/2, 4, 5 H.P.	81.00	79.80
3409-15	15'	14	3 1/2, 4, 5 H.P.	133.00	130.20
3409-25	25'	12	3 1/2, 4, 5 H.P.	173.00	169.30
3409-40	40'	8	3 1/2, 4, 5 H.P.	245.60	240.30

PACKAGED IN ONE CARTON

COMFORT-AIRE-PAC



All the components needed for adding a total indoor comfort system to an existing furnace are packaged in one carton. Components are matched to each other to assure proper capacity output.

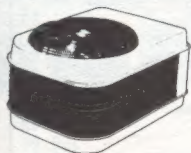
Description

Remote Condensing Unit
Precharged Evaporator Coil
Evaporator Adapter Kit
Precharged Refrigerant Line
T834C Thermostat

Model	H.P.	ARI Capacity Btu/Hr.	Voltage	1 LOT	2 LOT
UCP-24	2	22,000/21,600	208/230	1300.20	1272.20
UCP-28	2 1/2	25,400/25,400	208/230	1509.90	1477.40
UCP-31	3	29,800/29,600	208/230	1641.50	1606.20
UCP-36	3	33,000/32,400	208/230	1767.00	1729.00

UCP-24	UCP-28	UCP-31	UCP-36
QA24-E	QA30-E	QA30-E	QA36-E
Adapt-A-Ease	Adapt-A-Ease	Adapt-A-Ease	Adapt-A-Ease
20'	20'	25'	25'
Heat/Cool Stat	Heat/Cool Stat	Heat/Cool Stat	Heat/Cool Stat
Transformer/	Transformer/	Transformer/	Transformer/
Relay Kit	Relay Kit	Relay Kit	Relay Kit

UCS STANDARD SERIES



Factory pre-charged — male quick connect coupling — hermetic compressors — UL approved — ARI certified — U shaped aluminum condenser coil — single speed upflow discharge fan and motor — built in crankcase heater — starting components standard on UCS-60.

*With matching Coil at DOE Test standard.

STANDARD CONDENSING UNITS

Model	H.P.	Nominal Capacity Btu/Hr.*	Voltage	1 LOT	2 LOT
UCS24-1B	2	22,400/17,000	1-60/208/230	933.80	913.70
UCS28-1B	2½	26,200/26,200	1-60/208/230	1070.50	1047.50
UCS30-1B	2½	30,800/30,800	1-60/208/230	1193.20	1167.60
UCS36-1B	3	34,200/33,600	1-60/208/230	1336.50	1307.70
UCS36-3B	3	34,200/33,600	3-60/208/230	1434.60	1403.70
UCS42-1A	3½	42,500/42,500	1-60/208/230	1509.00	1476.50
UCS48-1A	4	45,000/44,000	1-60/208/230	1633.10	1598.00
UCS48-3A	4	45,000/44,000	3-60/208/230	1685.20	1649.00
UCS60-1A	5	59,500/58,500	1-60/208/230	2050.70	2006.60
UCS60-3A	5	59,500/58,500	3-60/208/230	2082.30	2037.90
UCS60-4A	5	59,500/58,500	3-60/208/230	2166.00	2119.40

OPTIONAL ACCESSORIES

7601-70	Capacitor Relay Kit, UCS-24 - 30	51.20	50.10
7601-71	Capacitor Relay Kit, UCS-36 - 48	62.40	61.00
7600-333	Fan Relay and Transformer Kit	28.90	28.30

UCE SERIES

Designed for maximum efficiency when matched with companion coils per our detailed specification sheet. Incorporates 2-speed condenser fan with ambient switch — vertical discharge — insulated compressor section for quiet operation — built-in crankcase heat — male quick connect couplings.

*With matching coil at DOE Test standards.

UCE CONDENSING UNITS

Model	H.P.	Nominal Capacity Btu/Hr.*	Voltage	1 LOT	2 LOT
UCE24-1A	2	24,200/24,000	1-60/208/230	1136.80	1112.10
UCG30-1H	2½	30,000/29,400	1-60/208/230	1318.30	1290.00
UCG36-1H	3	36,800/36,200	1-60/208/230	1507.10	1474.70
UCE42-1G	3½	41,500/41,000	1-60/208/230	1688.00	1651.70
UCE48-1A	4	46,000/45,000	1-60/208/230	1860.00	1820.00
UCE48-1G	4	46,000/45,000	1-60/208/230	1860.00	1820.00
UCE60-1G	5	59,500/59,000	1-60/208/230	2211.60	2164.00
UCE60-1A	5	59,500/59,000	1-60/208/230	2261.80	2213.20

OPTIONAL ACCESSORIES

7601-70	Capacitor Relay Kit, UCE-24	51.20	50.10
7601-71	Capacitor Relay Kit, UCE-48, 42	62.40	61.00
7601-141	Capacitor Relay Kit, UCG-30 - 36	46.50	45.50
7600-333	Fan Relay and Transformer Kit	28.90	28.30

Comfort-Circ.

UCH SERIES

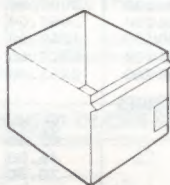


With Matching Coil At DOE Test Standards.

UCH CONDENSING UNITS

Model	H.P.	Nominal Capacity Btu/Hr.*	Voltage	1 LOT	2 LOT
UCH24-1H	2	25,000/24,200	1-60/208/230	1166.30	1141.20
UCH30-1H	2½	29,800/29,600	1-60/208/230	1411.80	1381.40
UCH36-1H	2	36,800/36,400	1-60/208/230	1614.50	1579.80

7601-141	Capacitor Relay Kit, UCH-24 - 36	46.50	45.80
7600-333	Fan Relay and Transformer Kit	28.90	28.30

		SLOPE AND "A" COILS			
		Model	HP	Matches	
 Female Quick Connect coupling — capillary design — operating refrigerant charge — drawn drain pan on coil.		QS24-E	2	USC-24, UCE-24, UCH-24	185.60
		QA24-E	2	UCS-24, 30, UCE-24, UCH-24	202.30
		QA30-E	2½	UCS-24, 28, 30, 36, UCE-24, UCH-24, 30, UCG-30	249.30
		QA36-E	3	UCS-28, 30, 36, UCE-24, UCH-24, 30, UCG-30, 36	269.30
		QA42-E	3½	UCS-42, 48, UCE-42, UHC-36	321.80
		QA42-F	3½	UCS-30, 36 UCG-30, 36 UCH-24, 30	321.80
		QA48-E	4	UCS-42, 48, UCE-42, 48	358.60
		QA48-F	4	UCG-36	358.60
		QA48-G	4	UCH-36	358.60
		QA60-E	5	UCS-42, 48, 60, UCE-42, 48	438.50
		QA60-HE	5	UCE-60	429.10
		HORIZONTAL COILS			
		Model	HP	Matches	
 Pre-charged capillary design — Female Quick Connect—includes insulated drain pan — cabinet enclosure — duct flange.		QO24-H	2	UCS-24, 30, UCE-24, UCH-24	250.70
		QO36-H	3	UCS-30, 36, UCE-24, UCH-24, 30 UCG-30, 36	332.10
		Q48-H	4	UCS-42, 48 UCE-42, 48 UCH-36	390.60
		Q60-H	5	UCS-60, UCE-42, 48, 60	467.80
					457.80
		EVAPORATOR COIL CABINETS			
		Model For Number Evaporator Models	Fits Furnace Models	BACH	
 Upflow models are zinc coated steel. The counterflow model is enamel coated steel to match our furnaces. All coil cabinets are shipped unassembled with installation instructions packed in the carton with each unit.		UP 10	QS 24-E, CFS 15-E, 18-E, 24-E	GHJ-45	41.40
		UP16	QA 24-E, 30-E, 36-E, CFA 24-E, 30-E + G, 36-E	GHL, GHJ, GHK-80, 95, GBJ, GBK, GBL-95	53.90
		UP20	QA 42-E + F, CFA 42-E + F	GHJ, GHK, GHL, GBJ, GBK, GBL-125, 140, OUH, OUI, OLE, OLF-84*, 95*, FB**, FE**, FF**	59.50
		UP20-1	QA 48-E + F + G, 60-E + HE, CFA 48-E, 60-E + F	GHJ, GHK, GHL, GBJ, GBK, GBL-125, 140, OUH, OUI, OLE, OLF-84*, 95*, FB**, FE**, FF**	72.50
		UP25	QA 48-E + F + G, 60-E + HE, CFA 48-E, 60-E + F	GHJ, GHK, GHL, GBJ, GBK, GBL-150, 175, GHJ-185, OUI, OLE, OLF-112, 120, 150	85.10
		DP20	QA 24-E, 30-E, 36-E, 42-E + F, CFA 24-E, 30-E + G, 36-E, 42-E + F	GCJ, GCK, GCL-80, 100, 125, 140	103.20
		DP20-1	QA 48-E + F + G, 60-E + HE, CFA 48-E, 60-E + F	GCJ, GCK, GCL-80, 100, 125, 140	113.50
		DP25	QA 48-E + F + G, 60-E + HE, CFA 48-E, 60-E + F	GCJ, GCK, GCL-175, ODG, ODH-89, 95, 112, 120	123.70
		* Requires Adapter 7601-137			
		** Requires Adapter 7601-138			

PCT PACKAGED COOLING UNITS

Model	H.P.	Cooling Capacity BTU	EACH
PCT-24-1B	2	23,000/22,500	\$ 1635.30
PCT-30-1B	2½	27,500/27,000	1843.70
PCT-36-1A	3	34,500/34,000	2021.60
PCT-36-3A	3	34,500/34,000	2061.70
PCT-42-1B*	3½	40,000/40,000	2445.70
PCT-42-3B*	3½	40,000/40,000	2481.60
PCT-48-1B*	4	48,000/48,000	2659.60
PCT-48-3B*	4	48,000/48,000	2695.50
PCT-60-1B*	5	55,000/54,000	3044.00
PCT-60-3B*	5	55,000/54,000	3102.00

OPTIONAL ACCESSORIES

Part No.	Description KW	BTUH 240V**	Unit For Use On	
Single Phase Heaters:				
7601-45	5	17,070	All PCT	138.40
7601-46	9	30,726	All PCT	183.40
7601-47	13.5	46,089	All PCT	266.70
7601-48	16.4	55,990	PCT36, 42, 48, 60	318.50
Three Phase Heaters:				
7601-55	5	17,070	All PCT	169.30
7601-57	9	30,726	All PCT	200.20
7601-58	13.5	46,089	All PCT	255.30
7601-59	16.4	55,990	PCT36, 42, 48, 60	238.50
7601-39A	5' Extension, \$ 56.00			
PCT Accessories adaptable to all units:				
7601-85	Manual Fresh Air			111.10
7601-86A	100% Fresh Air			1003.30
7601-87	Relief Damper			86.00
7601-88	Concentric Duct Package Consisting of 1 Pkg. Duct 1 Pkg. Grille			624.80

7601-113	Double Supply Duct Kit — Consisting of: 1 supply Y adapter 12" x 10" x 10" galvanized steel and insulated, 1 pc. 10" flexible duct 14' long, 2 - 10" duct adapters and 4 clamps. Use for double supply and single return with 7601-112, or double supply double return with (2) 7601-112.	\$ 194.80
7601-112	Single Duct Kit - PCT-36 — Consisting of: 1 return air box, filter, floor grille and plate; (1) 12" duct adapter: 15' x 12" round vinyl coated duct.	\$ 194.80

**Dual voltage for 208 V capacity.

Self Contained Package—Vertical Air Discharge — 3 speed blower provides airflow adjustment for high or low static operation — round or rectangular duct connections — will accept optional slide-in electric heaters from 5 to 16.4 KW — UL listed for outdoor installation.

*Roof Curb and Plenum Kit available

ROOF CURB & PLENUM ASSEMBLY

PCT curb comes factory assembled, TGR shipped knocked down. All curbs are insulated and have a mailing strip.

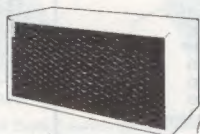
	PCT 42-48-60 Use Part No.	EACH
Curb & Platform	7601-83	\$ 397.30
Plenum	7601-84	524.20
	All TGR	
Curb	7603-1	283.50
	TGR24-30	
Curb Platform & Plenum	7603-3	710.80
	TGR37-43	
Curb Platform & Plenum	7603-4	710.80
Curb Extension	7603-2	122.00
	TGR49-59	
Curb Platform & Plenum	7603-5	791.30
Curb Extension	7603-2	122.00

**Dual voltage for 208 V capacity.
Self Contained Package—Vertical Air Discharge — 3 speed blower provides airflow adjustment for high or low static operation — round or rectangular duct connections — will accept optional slide-in electric heaters from 5 to 16.4 KW — UL listed for outdoor installation.

*Roof Curb and Plenum Kit available

1981 Season

CF SERIES



Comfort-Cine.

Standard Equipment: Hermetic compressor, compression fittings with shut off valve. Liquid line drier installed. Fully charged with R-22 refrigerant with capacity to "sweep lines." UL approved, ARI certified.

†With matching coil at DOE Test standards.

COMPRESSION FITTING PRECHARGED SERIES HORIZONTAL AIR FLOW

Model	H.P.	Nominal Capacity Btu/Hr.†	Voltage	1 LOT	2 LOT
CF-12-1A	1	11,300/11,200	208/230/60/1	646.80	632.90
CF-15-1A	1½	14,100/14,100	208/230/60/1	707.80	692.60
CF-18-1E	1½	17,500/17,400	208/230/60/1	810.50	793.10
CF-24-1D	2	23,600	230/60/1	902.10	882.70
CF-30-1C	2½	27,400	230/60/1	1018.40	996.50
CF-36-1C	3	35,200/34,800	208/230/60/1	1236.00	1209.40
7600-161A	Capacitor Relay Kit, CF18, CF24, CF30			46.50	45.50
7600-138D	Capacitor Relay Kit, CF36			55.80	54.60

CF SERIES

Compact air handler with evaporator coil. Available with 0 to 15 KW electric heat. Heat staged by delay relays at 5 KW intervals. Slope coil installed has CF fittings for CF condensers. With UC/UCS/UCE series use adapter kit. Thermostat not included. Requires 7600-423 or 7600-345 offering special base to energize fan on call for heat.

VERTICAL FAN COIL UNIT

Model	KW	Voltage	240V Btu/Hr. Htg.	1 LOT	2 LOT
CF-18-EAH	0A	208/240/60/1	18,000	539.50	526.90
CF-18-EAH	5A	208/240/60/1	18,000	589.70	577.00
CF-18-EAH	10A	208/240/60/1	18,000	634.80	621.10
CF-24-EAH	0A	208/240/60/1	24,000	584.10	571.50
CF-24-EAH	5A	208/240/60/1	24,000	606.90	593.80
CF-24-EAH	10A	208/240/60/1	24,000	646.90	632.90
CF-24-EAH	15A	208/240/60/1	24,000	680.30	665.70
CF-30-EAH	0A	208/240/60/1	28,000	627.80	614.30
CF-30-EAH	5A	208/240/60/1	28,000	665.90	651.60
CF-30-EAH	10A	208/240/60/1	28,000	703.10	688.00
CF-30-EAH	15A	208/240/60/1	28,000	731.50	715.80
7600-440	Filter Rack for 18 and 24,000 Btu/Hr.			16.30	16.00
7600-442	Hanger Bracket Kit for all models			9.30	9.10

CF SERIES

SLOPE AND "A" TYPE

Model	HP	Matches		
CFS-15-E	1½	CF-12	157.20	153.80
CFS-18-E	1½	CF-18	162.30	158.80
CFS-24-E	2	CF-24	177.20	173.40
CFA-24-E	2	CF-24	194.90	190.70
CFA-30-E	2½	CF-30	245.10	239.80
CFA-36-E	3	CF-36	263.70	258.00



Model No.
7601-36

\$ 260.00

Sure Shot is a refrigerant charging instrument for charging capillary tube air conditioning systems with R-22 refrigerant. It is easy to use and eliminates the guesswork experienced when charging by system pressures and temperatures or by weight of refrigerant. Sure Shot charges automatically to system requirements and then stops. It will not overcharge.



HORIZONTAL COILS

Model	HP	Matches	EACH
CFH-24-H	2	CF-24-30 CFU-18-24	243.90
CFH-30-H	2½	CF-30 CFU-24	302.20
CFH-36-H	3	CF-36 CFU-30-36	322.20
CFH-48-H	4	CFU-42-48 CFU-24	379.50
CFH-60-H	5	CFU-60	457.80

CF SERIES

INSULATED TUBING

Tubing kits are individually packaged and are "plain end." Ends are capped and tubing carries a charge of R-22 at 5 PSI. CF condenser has sufficient charge to evacuate coil and lines and balance system. Tubing O.D. CFT-18, 1/4" and 1/2"; CFT-30, 1/4" and 5/8"; CFT-36, 1/4" and 3/4"; CFT-48, 3/8" and 3/4"; CFT-60, 3/8" and 7/8". See installation instructions.

For CF	Length Ft.	EACH	For CF	Length Ft.	EACH
CFT-18	20	48.20	CFT-36	20	63.70
CFT-18	25	59.20	CFT-36	25	77.40
CFT-18	30	67.80	CFT-36	30	91.90
CFT-18	50	101.90	CFT-36	50	138.80
CF-24-30			CF-42-48		
CFT-30	15	45.50	CFT-48	25	91.90
CFT-30	20	57.80	CFT-48	30	101.90
CFT-30	25	69.20	CFT-48	50	157.90
CFT-30	30	81.90	CFT-60		
CFT-30	50	124.70	CFT-60	15	66.40
CF-36			CFT-60	25	102.80
CFT-36	10	22.80	CFT-60	30	121.50
CFT-36	15	45.50	CFT-60	50	194.70

UCS/UCE SERIES

CONDENSER HALF 1/2 QUICK COUPLE KITS

These kits are used to convert Quick Connect condensing units to compression fittings with plain end tubing.

Part No.	For Use With	Liq.	Suc.	EACH
7601-18	UCS/UCE-24	1/2"	5/16"	26.00
7601-19	UCS-28, 32, 36 UCH-24, UCH-30 UCG-30, 36	1/4"	3/16"	26.00
7601-20	UCS/UCE-42, 48	3/8"	3/16"	39.10
7601-21	UCS/UCE-60	1/2"	7/16"	39.10

CF SERIES

EVAPORATOR HALF 1/2 QUICK COUPLE KITS

These kits are used to connect Quick Connect type evaporators to plain end tubing for sweat connection.

Part No.	For Use With	Liq.	Suc.	EACH
7601-22	CF-18	1/2"	1/2"	26.00
7601-23	CF-24-30, CFU-18-24	1/2"	5/16"	26.00
7601-24	CF-36, CFU-30-36	3/4"	3/16"	26.00
7601-25	CF-42-48, CFU-42-48	3/2"	3/16"	26.00
7601-26	CF-60, CFU-60	3/2"	7/16"	39.10

UCS/UCE/CF SERIES

ADAPT-A-EASE KIT

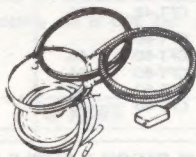
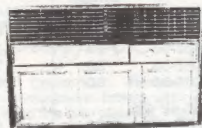
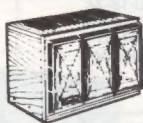


Model No.
7601-136

Used With
"A" Coils QA Series

30.00

TWIN PAC REMOTE AIR CONDITIONING SYSTEM



Model	H.P.	Cooling Capacity BTU	Heating Capacity BTU	EACH
MTP-601-B	1/2	5,500	—	\$ 792.20
MTR-111	1	10,000	—	1168.80
MTR-153	1 1/2	14,500/14,000	—	1235.80
MTRE-153	1 1/2	14,500/14,000	11,600	1306.30

STANDARD EQUIPMENT

- | | |
|--|--------------------------------------|
| 1 Remote Condensing Unit | 1 Set of Installation Hardware: |
| 1 Indoor Evaporator Section | Template for locating indoor section |
| 1 Set of refrigerant lines with Aeroquip fittings; includes charge port. | Bending Block for lines |
| 1 Condensate Line | 2" Diameter telescopic wall sleeve |
| | 1 Wiring harness in B/X cable |
- All components shipped in one carton

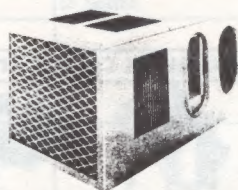
OPTIONAL ACCESSORIES

11 ft. tubing kit consisting of: liquid line and suction line with Aeroquip fittings, electric cable assembly in BX, and condensate line. Compatible with 8 ft. standard length packed with unit to provide maximum of 19 ft. remote location of condenser.

7600-501	Tubing Kit for MTP-601	99.20
7600-502	Tubing Kit for MTR-111	99.20
7600-503	Tubing Kit for MTR-153	99.20
7600-529	Tubing Kit for MTRE-153	99.20

MOBILE PAC AIR CONDITIONING SYSTEM

Comfort-Aire.



Model	H.P.	Cooling Capacity BTU	Ship. Wt.	EACH
MPC-25-1A	2	24,500	350	\$ 1443.30
MPC-29-1A	2 1/2	28,500	359	1558.00
MPC-37-1A	3	36,500	365	1707.10

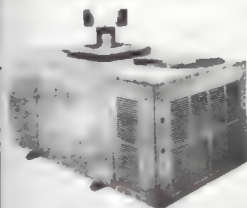
OPTIONAL ACCESSORIES

7601-39A	5-foot Duct Extension	56.00
7600-161A	Capacitor Relay Kit, MPC-25-1A, MPC-29-1A	45.50
7600-138D	Capacitor Relay Kit, MPC-37-1A	54.60

STANDARD EQUIPMENT

- | | |
|--|------------------------------|
| 1 Package cooling Units MC-24, MC-28 and MC-36 | 1 Winter Blanking Plate |
| 15' Flexible Duct (12" Dia.) | 1 Blanket Filter 1" density |
| 1 Metal Transition for supply | 1 Cooling only Thermostat |
| 1 Metal Transition for cold air | All components in one carton |

COMBINATION HEATING & COOLING ROOF TOP UNITS



TGR Gas Series

Comfort-Aire.

Completely self-contained units, zinc-coated steel cabinets. Units are fully insulated with fiberglass. Heating section is constructed of aluminized steel for long life, factory warranted for 5 years against burn-out. Electric automatic ignition, slide-out burners, combination gas valve, limit switch. Cooling coil of aluminum fins and copper tubing. Crankcase heaters on all units. Hermetically sealed compressor with 5 year warranty. Roof curb and Plenum Kit available for all models.

		Electric			EACH
	Capacities	Characteristics	Evap.		
TGR-24-1C- 95	25,600	100,000	230-60-1	900	\$ 2079.40
TGR-30-1C- 95	31,600	100,000	230-60-1	1000	2137.60
TGR-37-1C-120	34,000	120,000	230-60-1	1200	2496.60
TGR-37-3C-120	34,000	120,000	208/230-60-1	1200	2521.70
TGR-43-1C-120	44,000	120,000	230-60-1	1300	2982.60
TGR-43-3C-120	44,000	120,000	208/230-60-1	1300	3000.00
TGR-49-1C-140	51,000	140,000	230-60-1	1600	3476.60
TGR-49-3C-140	51,000	140,000	208/230-60-1	1600	3517.20
TGR-59-1C-160	55,000	160,000	230-60-1	1900	4178.80
TGR-59-3C-160	55,000	160,000	208/230-60-1	1900	4211.50

Specify natural or propane gas.

TGR Accessories

TGR Accessories for all units.

7603-6	Concentric Grille	519.70
7603-7	Flex Duct	184.30
7603-8	Economizer	1309.10
7603-32	Propane Conversion kit	

NOTE:

Complete Roof Curb Assembly
Requires: Curb, Platform &
Plenum, Curb Extension
(3 ton unit and up).

— HOT WATER HEAT PUMP —

Comfort-Aire.



MODEL NO.	OUTPUT	OPERATING VOLTS	AMPS	EACH
HWHP-115	12,000 Btu/Hr.	115	10-14	\$ 1222.00
HWHP-230	12,000 Btu/Hr.	230	5-7	1222.00

1981 Season

HEAT PUMP

REVERSE-A-MATIC®



Remote Condensing Section

Standard Equipment: Quiet upflow design featuring built-in accumulator & off-cycle capacitance heat. Integrated hold-back thermostat for resistance heat staging. Zinc coated, epoxy primed, painted steel cabinet. Factory pre-charged system with quick connect couplings.



Indoor Section

Standard Equipment: Fully integrated system incorporating "A" type evaporator coil. Direct drive blower motor for quiet and efficient air flow. Deluxe automatic changeover thermostat with emergency heat switch. Electric supplemental heat factory installed with multi breaker circuit. Washable permanent filter. Precharged fittings designed to adopt to 3412 series precharged tubing kits.

OUTDOOR UNITS

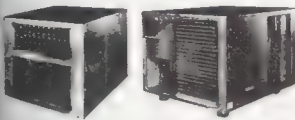
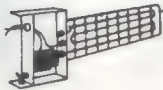
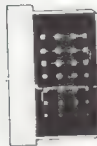
Model No. Outdoor Unit	Electrical Characteristics (V/V-HZ-Phase)	Operating Amps (1) @ 208/230V	EACH
QH824-1C	208/230-60-1	13.0/11.6	1424.30
QH830-1B	208/230-60-1	16.0/14.7	1628.50
QH836-1B	208/230-60-1	20.0/18.2	1796.80
QH842-1A	230-60-1	23.5	2229.30
QH848-1A	230-60-1	24.6	2323.80
QH848-3A	208/230-60-3	23.8/12.5	2328.80
QH860-1A	208/230-60-1	33.9/35.4	2628.20
QH860-3A	208/230-60-3	19.8/18.4	2628.20

MATCHING INDOOR SECTION

Model No.	H.P.	Nominal Cooling	Integrated Heat	EACH
65HDB410B	1/4	2 Ton	10 KW	927.30
65HDB415B	1/4	2 Ton	15 KW	1015.60
65HEB415B	1/2	2 1/2 Ton	15 KW	1086.30
65HEB420B	1/2	2 1/2 Ton	20 KW	1129.50
68HFB420B	1/2	3 Ton	20 KW	1168.10
68HFB425B	1/2	3 Ton	25 KW	1301.60
68HGB425B	3/4	3 1/2 Ton	25 KW	1364.80
68HGB430B	3/4	3 1/2 Ton	30 KW	1396.90
68HHB425B	3/4	4 Ton	25 KW	1488.50
68HHB430B	3/4	4 Ton	30 KW	1520.60
68HHB435B	3/4	4 Ton	35 KW	1580.60
68HKB425B	3/4	5 Ton	25 KW	1498.30
68HKB430B	3/4	5 Ton	30 KW	1533.10
68HKB435B	3/4	5 Ton	35 KW	1606.20

OPTIONAL ACCESSORIES

Model No.	EACH	Model No.	EACH
7601-103 Return Air Plenum 65 Cabinet Size	85.10	7601-107 Counterflow Drain Pan & Anti-Freeze Stat Kit	46.50
7601-104 Return Air Plenum 68 Cabinet Size	98.20	7601-108 Horizontal Drain Pan Kit	34.00
7601-105 Floor Base 65 Cabinet Size	31.20	7601-109 Condensing Unit Support Legs	41.40
7601-106 Floor Base 68 Cabinet Size	36.30	7601-110 Heat/Cool Stat Auto Change Over	87.50

	HEAT PUMP EVAPORATOR COILS				
SYSTEM-MAKE Coils are designed for add-on application to existing warm air furnaces, upflow or downflow configuration. SYSTEM-MAKE applications using outdoor units built prior to 1979, require the use of a 7601-110 thermostat and a 7601-132 kit. Units built in 1979 use the 7601-135 kit. Both kits may require appropriate relays.	FOR USE WITH QH 800 SERIES CONDENSING UNITS			EACH	
	MODEL NO.	H.P.			
	QHA24-C	2		\$ 279.00	
	QHA30-C	2½		321.80	
	QHA36-C	3		368.80	
	QHA42-C	3½		410.20	
	QHA48-C	4		509.70	
	QHA60-C	5		518.10	
	7601-132	Relay Kit		74.40	
	7601-110	Thermostat		87.50	
	7601-133	240/40 V Relay Transformer Kit		29.80	
	7601-134	Isolation Relay		26.10	
7601-135	Thermostat and Discharge Temperature Control		122.80		
PACKAGED HEAT PUMP UNITS					
	Capacity BTU			EACH	
	Model	H.P.	Cooling Heating		
	PH-24-1D	2	24,000 24,000	1921.90	
	PH-36-1D	3	35,000 37,000	2447.80	
	PH-36-3D	3	35,000 37,000	2489.20	
	PH-42-1D	3½	39,000 40,000	2612.40	
	PH-60-1D	5	58,000 57,000	3342.50	
	PH-60-3B	5	58,000 57,000	3342.50	
	OPTIONAL ACCESSORIES				
	7600-161A	Capacitor Relay Kit, PH-24-1D		46.50	
7600-138D	Capacitor Relay Kit, PH-36-1D		55.80		
Combination Heat Cool Thermostat included on all models. All models include 7600-332A Honeywell T872-R1008 with Q672-1046.					
SLIDE-IN TYPE ELECTRIC HEATERS					
	Model	KW	BTU Output	EACH	
	4400-17 1st Stage	4.8	16,380	127.50	
	4400-13 1st Stage	4.8	16,380	134.40	
	4400-18 2nd Stage	4.8	16,380	131.20	
	4400-15 2, 3, 4th Stage	4.8	16,380	129.30	
	4400-18A 2nd Stage*	4.8	16,380	203.70	
	4400-15A 2, 3, 4th Stage*	4.8	16,380	213.90	
For PH-24-1D and PH-36-1D SELF-CONTAINED HEAT PUMPS. Each model number is 4.8 KW for use with above pumps.					
ELECTRIC DUCT HEATERS					
	Part No.	KW	BTU Output	EACH	
	4400- 8E	5	16,380	155.40	
	4400- 9E	10	32,760	236.30	
	4400-10E	15	49,140	351.60	
	4400-25B*	15	49,140	406.50	
	4400-12E	20	65,520	317.20	
Factory assembled and wired - R8154 controller with low voltage pull in coil - Standard duct size 11-3/4" x 19-5/16".					
*3 Phase Heater, Includes Relay					

Comfort-Aire

New!

Effective 1980 Season

GAS HIGHBOY		DIRECT DRIVE							
Model No.	Btuh Input	Tons Nominal Cooling	Cooling CFM .5 ESP	Optional Return Air Drop	Optional Side Filter Rack	Propane Kit for Field Installation	1 LOT	2 LOT	
GHI 45-02	45 000	2	400	V A	F1A	CK 32	457.00	447.40	
GHI 80-DH	80 000	HEAT	—	RD16	F10A	CK 33	470.30	460.40	
GHI 80-02.5	80 000	2.5	1020	RD16	F10A	CK 33	531.10	519.90	
GHI 80-D3	80 000	3	1110	RD16	F10A	CK 33	541.50	530.10	
GHI 95-DH	95 000	HEAT	—	RD16	F10A	CK 35	496.90	486.40	
GHI 95-02.5	95 000	2.5	1020	RD16	F10A	CK 35	555.30	543.60	
GHI 95-03	95 000	3	1110	RD16	F10A	CK 35	571.90	559.90	
GHI 95-03.5	95 000	3.5	1210	RD16	F10A	CK 35	588.50	585.90	
GHI 125-DH	125 000	HEAT	—	RD20	F5A	CK 36B	598.90	584.10	
GHI 125-D3	125 000	3	1280	RD20	F5A	CK 36B	630.40	617.10	
GHI 125-D4	125 000	4	1345	RD20	F5A	CK 36B	696.40	681.70	
GHI 125-D5	125 000	5	1520	RD20	F5A	CK 36B	780.00	763.60	
GHI 140-DH	140 000	HEAT	—	RD20	F5A	CK-36C	636.00	622.70	
GHI 150-D5	150 000	5	1970	RD25	F8B	CK 37A	837.90	820.30	
GHI 175-D5	175 000	5	1970	RD25	F8B	CK 37B	926.30	906.80	
GHI 185-D5	185 000	5	1970	RD25	F8B	CK 37C	999.40	978.40	

GAS LOWBOY		DIRECT DRIVE							
Model No.	Btuh Input	Tons Nominal Cooling	Cooling CFM .5 ESP	Propane Kit for Field Installation	1 LOT	2 LOT			
GBJ 95-DH	95 000	HEAT	—	CK-35	645.10	631.50			
GBJ 95-03	95 000	3	1140	CK-35	715.90	700.80			
GBJ 125-DH	125 000	HEAT	—	CK-36B	782.80	766.40			
GBJ 125-D3.5	125 000	3.5	1400	CK-36B	829.40	811.90			
GBJ 140-DH	140 000	HEAT	—	CK-36C	832.70	815.20			
GBJ 140-D4	140 000	4	1570	CK-36C	957.20	937.00			
GBJ 140-D5	140 000	5	1750	CK-36C	991.80	971.00			
GBJ 175-DH	175 000	HEAT	—	CK-37B	992.80	971.90			
GBJ 175-D5	175 000	5	2050	CK-37B	1140.00	1116.00			

GAS COUNTERFLOW		DIRECT DRIVE							
Model No.	Btuh Input	Tons Nominal Cooling	Cooling CFM .5 ESP	Combustible Floor Base	Propane Kit for Field Installation	1 LOT	2 LOT		
GCI 80-DH	80 000	HEAT	—	CFB-16H	CK-33	545.80	534.30		
GCI 80-02.5	80 000	2.5	1000	CFB-16H	CK 33	583.30	571.10		
GCI 100-DH	100 000	HEAT	—	CFB-16H	CK 35	567.20	555.30		
GCI 100-02.5	100 000	2.5	1080	CFB-16H	CK-35	632.30	619.00		
GCI 100-D3	100 000	3	1140	CFB-16H	CK-35	636.50	623.10		
GCI 125-DH	125 000	HEAT	—	CFB-20H	CK-36B	681.20	666.90		
GCI 125-D3	125 000	3	1330	CFB-20H	CK-36B	709.70	694.80		
GCI 140-DH	140 000	HEAT	—	CFB-20H	CK-36C	766.70	750.60		
GCI 140-D5	140 000	5	1500	CFB-20H	CK-36C	917.70	898.40		
GCI 175-D5	175 000	5	2090	CFB-25H	CK-37B	1062.60	1040.20		

See Comfort Aire Specification Sheet Form No. F-08-1 FOR 5 and F-08-6 for all gas furnace specifications and dimensions

1991-92

Propane to Natural Gas			
CKD-33N	19.00	CKD-36NC	25.00
CKD-35N	19.00	CKD-37NA	122.50
CKD-36NB	25.00	CKD-37NB	122.50

ELECTRIC IGNITION SYSTEM

NEW

LOWBOY		DIRECT DRIVE - NATURAL AND PROPANE					1 LOT	2 LOT
Model No.	Btuh Input	Tons Nominal Cooling	Cooling CFM .5 ESP	Optional Auto Damper Ret.	Optional Auto Damper Propane	Propane Kit For Field Installation		
GBK 95-DH	95,000	HEAT	—	AFD5	AFD5	CKD-35	842.20	824.50
GBK 95-D3	95,000	3	1140	AFD5	AFD5	CKD-35	909.20	890.00
GBK 125-DH	125,000	HEAT	—	AFD5	AFD5	CKD-36B	978.50	957.90
GBK 125-D3.5	125,000	3.5	1400	AFD5	AFD5	CKD-36B	1033.60	1011.90
GBK 140-DH	140,000	HEAT	—	AFD6	AFD6	CKD-36C	1041.20	1019.30
GBK 140-D4	140,000	4	1570	AFD6	AFD6	CKD-36C	1187.10	1162.10
GBK 175-DH	175,000	HEAT	—	AFD7	AFD7	CKD-37B	1275.90	1249.00
GBK 175-D5	175,000	5	2050	AFD7	AFD7	CKD-37B	1364.20	1335.50

EXTRA CHARGE ITEMS

S.U.R. Supplementary Utility Requirements - Above A.G.A. Standards - Consult Factory. Propane Gas Furnaces may be ordered for Propane usage (no charge) or Field Installed kits may be used.

HORIZONTAL		DIRECT DRIVE - NATURAL AND PROPANE					1 LOT	2 LOT
Model No.	Btuh Input	Tons Nominal Cooling	Cooling CFM .5 ESP	Propane Kit for Field Installation	Optional Filter Rack			
HFK 75-DH	75,000	HEAT	—	HCKD-23A	F08H	853.60	835.60	
HFK 75-D3	75,000	3	1130	HCKD-23A	F08H	922.50	903.10	
HFK 95-DH	95,000	HEAT	—	HCKD-23B	F10H	935.80	916.10	
HFK 95-D4	95,000	4	1330	HCKD-23B	F10H	1005.10	983.90	
HFK 115-DH	115,000	HEAT	—	HCKD-23C	F12H	1066.40	1044.00	
HFK 115-D5	115,000	5	1920	HCKD-23C	F12H	1154.80	1134.50	
HFK 135-D5	135,000	5	2030	HCKD-23D	F14H	1233.60	1207.60	
HFK 155-D5	155,000	5	2060	HCKD-23F	F16H	1472.10	1441.10	

EXTRA CHARGE ITEMS

S.U.R. Supplementary Utility Requirements - Above A.G.A. Standards - Consult Factory. Propane Gas Furnaces may be ordered for Propane usage (no charge) or Field Installed kits may be used.

OPTIONAL FILTER RACK

F08H	17.50	F14H	23.00
F10H	20.00	F16H	25.00
F12H	21.00		

AUTOMATIC FLUE DAMPERS

Model No.	Ship Wt. Lbs.	1 LOT	2 LOT
AFD-4	6		
AFD-5	7	195.70	191.60
AFD-6	9	195.70	191.60
AFD-7	9	195.70	191.60

*AFD-4 Suitable for Natural Gas Only.

OIL COUNTERFLOW

DIRECT AND BELT DRIVE



Model No.	Btuh Output	Tons Nominal Cooling	Drive	Cooling CFM .5 ESP	EACH
ODG 84-DH					
ODH 84-DH*	84,000	HEAT	DD		1073.30
ODG 14-D2					
ODH 84-D2*	84,000	2	DD	765	1106.30
ODG 95-D3					
ODH 95-D3*	95,000	3	DD	1110	1130.50
ODG 112-D3					
ODH 112-D3*	112,000	3	DD	1195	1217.90
ODG 120-D4					
ODH 120-D4*	120,000	4	DD	1420	1387.70
ODG 140-BH	140,000	HEAT	BELT	—	1507.80

COMBUSTIBLE FLOOR BASE

MODEL NO.

CFB 220 for 84 and 95
CFB 250 for 112 and 120
CFB 175 for 140.

70.30
70.70
69.80

Comfort-Aire

New

HORIZONTAL GAS



STANDARD EQUIPMENT Eight sizes of AGA approved Horizontal Furnaces designed to be installed with Comfort Aire Summer Air Conditioning 1, 2, 3 and 4 speed direct drive Unit free self-cleaning steel burners with sectional heat exchangers. Completely factory assembled and prewired with field reversible draft hood and controls. Air conditioning models have heavy duty transformer and blower relay mounted and wired. All models priced and shipped less thermostat. F.O.B. Jackson, Michigan.

DIRECT DRIVE

Model No.	Btuh Input	Tons Nominal Cooling	Cooling CFM .5 ESP	Propane Kit for Field Installation	1 LOT	2 LOT
HF1 75-DH	75,000	HEAT	—	HCK-23A	664.10	650.10
HF1 75-03	75,000	3	1130	HCK-23A	739.60	724.00
HF1 95-DH	95,000	HEAT	—	HCK-23B	743.50	727.80
HF1 95-04	95,000	4	1330	HCK-23B	813.20	796.10
HF1 115-DH	115,000	HEAT	—	HCK-23C	871.60	853.30
HF1 115-05	115,000	5	1920	HCK-23C	958.60	938.40
HF1 135-05	135,000	5	2030	HCK-23D	1037.90	1016.10
HF1 155-05	135,000	5	2060	HCK-23F	1272.10	1245.30

EXTRA CHARGE ITEMS

S.U.R. Supplementary Utility Requirements Above A.G.A. Standards Consult Factory Propane Gas Furnaces may be ordered for Propane usage (no charge) or Field installed kits may be used.

OPTIONAL FILTER RACK

EACH

MODEL NO.
F08H for HF175-DH and HF1 75-03
F10H for HF195-DH and HF195-04
F12H for HF1115-DH and HF1115-05
F14H for HF1135-05
F16H for HF1155-05

17.50
20.00
21.00
23.00
25.00

ELECTRIC IGNITION SYSTEM

HIGHBOY

DIRECT DRIVE - NATURAL AND PROPANE

Model No.	Btuh Input	Tons Nominal Cooling	Cooling CFM .5 ESP	Optional Return Air Drop	Optional Side Filter Rack	Optional Auto Damper Nat.	Optional Auto Damper Propane	Propane Kit For Field Installation	1 LOT	2 LOT
GHR 80-DH	80,000	HEAT	—	RD16	F10A	AFD4	AFD5	CKD-33	666.50	652.40
GHR 80-02	80,000	2	760	RD16	F10A	AFD4	AFD5	CKD-33	708.30	693.40
GHR 95-DH	95,000	HEAT	—	RD16	F10A	AFD5	AFD5	CKD-35	697.30	682.70
GHR 95-03	95,000	3	1110	RD16	F10A	AFD5	AFD5	CKD-35	778.10	761.70
GHR 125-DH	125,000	HEAT	—	RD20	F5A	AFD5	AFD5	CKD-36B	803.70	786.80
GHR 125-03	125,000	3	1280	RD20	F5A	AFD5	AFD5	CKD-36B	836.00	818.40
GHR 140-DH	140,000	HEAT	—	RD20	F5A	AFD6	AFD6	CKD-36C	856.90	838.90
GHR 150-05	150,000	5	1970	RD25	F8B	AFD6	AFD6	CKD-37A	1066.90	1044.40
GHR 175-05	175,000	5	1970	RD25	F8B	AFD6	AFD6	CKD-37B	1121.00	1097.40

EXTRA CHARGE ITEMS

S.U.R. Supplementary Utility Requirements Above A.G.A. Standards Consult Factory Propane Gas Furnaces may be ordered for Propane usage (no charge) or Field installed kits may be used. Allow two weeks for shipment.

COUNTERFLOW

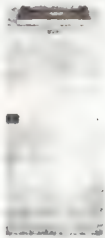
DIRECT DRIVE - NATURAL AND PROPANE

Model No.	Btuh Input	Tons Nominal Cooling	Cooling CFM .5 ESP	Combustible Floor Burner	Optional Auto Damper Natural	Optional Auto Damper Propane	Propane Kit For Field Installation	1 LOT	2 LOT
GCK 80 DH	80,000	HEAT	—	CFB-16H	AFD4	AFD5	CKD-33	732.50	717.10
GCK 80-02.5	80,000	2.5	1000	CFB-16H	AFD4	AFD5	CKD-33	764.30	748.20
GCK 100-DH	100,000	HEAT	—	CFB-16H	AFD5	AFD5	CKD-35	757.20	741.30
GCK 100-03	100,000	3	1140	CFB-16H	AFD5	AFD5	CKD-35	830.30	812.90
GCK 125-DH	125,000	HEAT	—	CFB-20H	AFD5	AFD5	CKD-36B	881.60	863.10
GCK 125-03	125,000	3	1330	CFB-20H	AFD5	AFD5	CKD-36B	900.00	881.70
GCK 140-DH	140,000	HEAT	—	CFB-20H	AFD6	AFD6	CKD-36C	1023.70	1002.10
GCK 140-05	140,000	5	1500	CFB-20H	AFD6	AFD5	CKD-36C	1052.60	1030.50
GCK 175-05	175,000	5	1090	CFB-25H	AFD6	AFD6	CKD-37B	1262.10	1235.50

EXTRA CHARGE ITEMS

S.U.R. Supplementary Utility Requirements Above A.G.A. Standards Consult Factory Propane Gas Furnaces may be ordered for Propane usage (no charge) or Field installed kits may be used. Allow two weeks for shipment.

Comfort-Aire®

ELECTRIC MODELS		FB/FE/FF MODELS							
		Model No.	K.W.	BTUH Output 240 Volts	Tons Nominal Cooling	Cooling CFM 5 ESP	Blower Size	Motor H.P.	EACH
		FB 15-B	14.4	49 147	4	1525	10 x 8	1 1/3	574.80
		FB 20-B**	19.2	65 530	4	1525	10 x 8	1 1/3	647.90
		FB 24-B**	24.0	81 912	4	1525	10 x 8	1 1/3	700.20
		FB 30-B**	28.8	98 294	4	1525	10 x 8	1 1/3	709.70
		FE 10-B*	9.6	32 765	3	1128	9 x 7	1 1/4	492.60
		FF 15-B*	14.4	49 147	4	1525	10 x 8	1 1/3	549.60
		FF 20-B**	19.2	65 530	4	1525	10 x 8	1 1/3	616.60
		FF 24-B**	24.0	81 912	4	1525	10 x 8	1 1/3	679.30
		FF 30-B**	28.8	98 294	4	1525	10 x 8	1 1/3	685.00
*One step control / **Two step control									
COMBUSTIBLE FLOOR BASE									
DSB-2 Fits FB/FE/FF Models 10 lbs									
See Comfort-Aire Specification Sheet Form No. F-08-2 for all electric furnace specifications and dimensions									
FHB MODELS									
Model No.	K.W.	BTUH Output	Tons Nominal Cooling	Ship Wt. Lbs.	Price 230 Volt Single Phase	Price 208/230 Volt Three Phase	Price 440/480 Volt Three Phase		
FHB25	25	85 325	5	190	671.70	741.50	598.50		
FHB30	30	102 390	5	194	716.30	788.10	661.20		
FHB35	35	119 455	5	197	760.00	837.50	717.25		
FHB40	40	136 520	5	200	806.10	886.90	871.20		
MODULAR CONSTRUCTION you must specify heating section and blower section Coil cabinet section is optional Single phase units may be special ordered for 208 volts allow 6 weeks (Price as 240 volts) + Heating section 480 volts 50 cycle Three Phase 4 Wire Delta Must have Neutral line for 277 Volt Blower Special order allow 6 weeks for delivery									
BLOWER SECTION (SINGLE PHASE)				OPTIONAL COIL CABINET					
Model No.	Ship Wt. Lbs.	Unit Price	Model No.						
B 2 240 Volt Models	190	584.30	FH 48C (4 ton)	115.00					
B 27 480 Volt Models	190	584.30	FH 60C (5 ton)	115.00					
ALL FURNACES									
THERMOSTATS									
Part No.	Honeywell No.	Applications	1 LOT	2 LOT					
7600-355	T822	Heat Only	14.80	14.50					
7600-343	T819C 1013	Cooling Only	14.80	14.50					
108169	T87F1800	For Gas or Oil Fired Units	22.80	22.40					
108435	Q539A1006 (Sub Base)	For Gas or Oil Fired Units	15.70	15.40					
7600-237	T87F1800 & Q539A1006	Comb. Heat/Cool Deluxe	35.20	34.50					
7600-345	T871800 & Q539J1006	Comb. Heat/Cool Deluxe	35.20	34.50					
7600-423	T834A1088 & Q634G1017	For use w/ Electric Duct Heater	30.40	29.80					
7601-43	T834A1006 & Q634A1005	For use with Electric Heat For Gas or Oil Fired Units	30.40	29.80					
THERMOSTAT AND SUB BASE—ALL are Honeywell suited for our equipment.									

STANDARD EQUIPMENT Fully insulated cabinets, nickel chromium elements guaranteed 5 years, drawer-type slide in heater strips, internal fusing meets, UL requirements Time delay between each element, single pole doublethrow and sequencing relay, slide out drawer mounted direct drive blower, heavy duty transformer, Listed and approved by Underwriters' Laboratories. All models shipped less thermostats. See thermostats Shipped F.O.B. Jackson Michigan

OIL HIGHBOY



OIL HIGHBOY

See Comfort-Aire Specification Sheet Form No. F-08-3 and F-08-6 for all oil furnace specifications and dimensions.

DIRECT DRIVE

Model No.	Btuh Output	Tons Nominal Cooling	Cooling CFM 5 ESP	EACH
OUH 84-DH				
OUI 84-DH*	84 000	HEAT	—	1024.00
OUH 84-D2				
OUI 84-D2*	84 000	2	865	1063.00
OUH 95-DH				
OUI 95-DH*	95 000	HEAT	—	1046.30
OUH 95-D3				
OUI 95-D3*	95 000	3	1180	1112.80
OUH 112-DH				
OUI 112-DH*	112 000	HEAT	—	1159.60
OUH 112-D3				
OUI 112-D3*	112 000	3	1170	1207.60
OUH 112-D4				
OUI 112-D4*	112 000	4	1400	1230.40
OUH 120-DH				
OUI 120-DH*	120 000	HEAT	—	1176.50
OUH 120-D4				
OUI 120-D4*	120 000	4	1400	1264.80
OUH 150-DH				
OUI 150-DH*	150 000	HEAT	—	1528.50
OUI 150-D5*	150 000	5	1915	1603.90

* OUI Series has a variation in cabinet design only. All other data matches the OUI Series. Units may be substituted by the factory.

OUH and OUI Series are listed and approved by Underwriter's Laboratories and are certified for compliance with CS-195.

BELT DRIVE

Model No.	Btuh Output	Tons Nominal Cooling	Cooling CFM 5 ESP	EACH
OUH 84-B2	84 000	2	820	
OUH 95-B3	95 000	3	1175	
OUH 112-B3	112 000	3	1220	
OUH 120-B4	120 000	4	1630	
OUC 140-B5	140 000	HEAT	—	
OUR 150-B5	150 000	5	1930	

All models are listed and approved by Underwriter's Laboratories and are certified for compliance.

OIL LOWBOY



OIL LOWBOY

ALL OIL MODELS

STANDARD EQUIPMENT: Assembled and wired, direct and belt drive blower (direct drive only on counterflow), combination fan and limit control, and concealed safety switch in blower compartment on counterflow models. Pressure atomizing oil burner assembly with single stage fuel unit, cad-cell detector with burner mounted relay (constant ignition). Resilient fibrous-type combustion chamber, barometric draft control, filter frame with filters for installation left or right side on highboy models. Concealed internal filters (2) on lowboy models (optional equipment). Air conditioning models include 24 volt, 40 VA transformer and relay. All models shipped less thermostats. See Thermostats. — Ten year heat exchanger warranty. Shipped F.O.B. Jackson, Michigan.

DIRECT DRIVE

Model No.	Btuh Output	Tons Nominal Cooling	Cooling CFM 5 ESP	EACH
OLE 84-D2				
OLF 84-D2*	84 000	2	850	1097.90
OLE 95-DH				
OLF 95-DH*	95 000	HEAT	—	1094.20
OLE 95-D3				
OLF 95-D3*	95 000	3	1200	1226.70
OLE 112-DH				
OLF 112-DH*	112 000	HEAT	—	1152.80
OLE 112-D4				
OLF 112-D4*	112 000	4	1555	1221.60
OLE 120-D4				
OLF 120-D4*	120 000	4	1555	1299.70
OLE 150-DH				
OLF 150-DH*	150 000	HEAT	—	1524.30
OLF 150-D5*	150 000	5	1915	1638.70

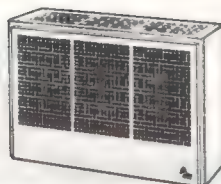
* OLF Series has a variation in cabinet design only. All other data matches the OLE Series. Units may be substituted by the factory.

OLE and OLF Series are listed and approved by Underwriter's Laboratories and are certified for compliance with CS-195.

Empire

CONTEMPRA PIN-UP

DIRECT VENT WALL FURNACE



Model Number	Input BTU	Temperature Control	Ignition System	Approximate Shipping Wt.	EACH
DV-225-1	25,000	Hydraulic Thermostat	Standing Pilot/Match	83 Lbs.	\$ 509.46
DV-235-1	35,000	Hydraulic Thermostat	Standing Pilot/Match	94 Lbs.	554.96

ACCESSORIES

Accessory Number	Description	Approximate Shipping Wt.	EACH
F-2535	Blower package with cord and plug	7 Lbs.	\$ 91.72

UPRIGHT COUNTER FLOW DIRECT VENT WALL FURNACE

Model Number	Input BTU	Temperature Control	Ignition System	Approximate Shipping Wt.	EACH
DV-60-SPP	60,000	Wall Thermostat, 24V	Standing Pilot/Piezo	134 Lbs.	\$ 838.98

ACCESSORIES

Accessory Number	Description	Approximate Shipping Wt.	EACH
DV-603	Register, side outlet	1 Lb.	\$ 9.72
DV-608	Side outlet kit, 10" boot with register	10 Lbs.	36.20

UPRIGHT COUNTER FLOW WALL FURNACE

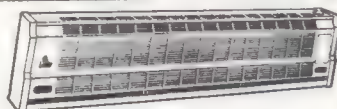
Model Number	Input BTU	Temperature Control	Ignition System	Approximate Shipping Wt.	EACH
FAW-60-SPP	60,000	Wall Thermostat, 24V	Standing Pilot/Piezo	120 Lbs.	\$ 749.98

ACCESSORIES

Accessory Number	Description	Approximate Shipping Wt.	EACH
DV-603	Register, side outlet	1 Lb.	\$ 9.72
DV-608	Side outlet kit, 10" boot with register	10 Lbs.	36.20
DV-637	Rear outlet kit, 10" boot with register	10 Lbs.	36.20
DV-664	Damper/ Register, rear outlet only	1 Lb.	18.44

BASEBOARD

DIRECT VENT



\$ 584.36

Model Number	Input BTU	Temperature Control	Ignition System	Approximate Shipping Wt.
B-125-8	12,500	Hydraulic Thermostat	Standing Pilot/Piezo	70 Lbs.

GAS BURNERS

STANDARD EQUIPMENT

- 1 AGA Approved Combination Valve
- 2 "SPARK" Pilot Lighter
- 3 Adjustable Venturi
- 4 Adjustable Length Target Arm
- 5 Orifice drilled for minimum rate + one (1) Extra
- 6 100% Pilot Safety Shut-off

MODEL	BTU HR INPUT		Each
	Minimum	Maximum	
NATURAL GAS			
LAB 200	60,000	200,000	310.00
LAB 300	60,000	300,000	330.00



STANDARD EQUIPMENT

- 1 AGA Approved Combination Valve
- 2 "SPARK" Pilot Lighter
- 3 Adjustable Venturi
- 4 4" Dia Flame Spreader
- 5 Orifice drilled for minimum rate + one (1) Extra
- 6 100% Pilot Safety Shut-off

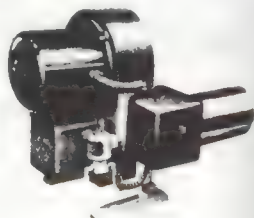
MODEL	BTU/HR INPUT		Each
	Minimum	Maximum	
NATURAL GAS			
LAU 200	60,000	200,000	310.00
LAU 275	60,000	275,000	330.00
LP GAS			
LAU 225-LPG	60,000	225,000	314.00



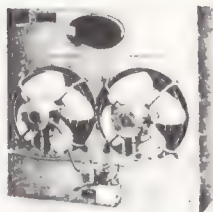
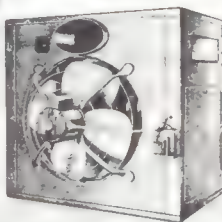
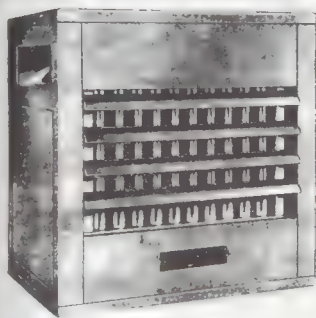
STANDARD EQUIPMENT

- 1 U.L. Listed Fireye UVM2A Electronic Ultra-Violet Flame Sensing Control with 30 second pre-purge
- 2 Spark Ignited Pilot
- 3 Air Proving Switch
- 4 Adjustable Floor Stand
- 5 Diaphragm Main Gas Valve
- 6 16" Long Blast Tube Standard
- 7 Solid State Ignition Generator
- 8 Separate Pilot Line Valve
- 9 Prewired
- 10 Pilot and Main Shut off Valves

MODEL	BTU/HR INPUT		EACH
	Minimum	Maximum	
NATURAL GAS			
LCP6R	400 000	600 000	1880.00
LCP8F	400 000	800 000	1960.00
LCP10F	400 000	1 000 000	2130.00
LCP12F	400,000	1 200,000	2410.00
LP GAS			
LCP6R LPG	400 000	600 000	1800.00
LCP8F LPG	400 000	800 000	1880.00
LCP10F LPG	400 000	1 000 000	2050.00
LCP12F LPG	400 000	1 200 000	2330.00



HEATCRAFT GAS FIRED INDOOR HEATING EQUIPMENT



25,000 thru 225,000 Btuh

250,000 thru 400,000 Btuh

PROPELLER UNIT HEATERS

Gas Unit Heaters are for use with Natural or LP gases. The units are completely assembled, wired, and tested on the gas for which they are equipped. Units thru 125 size have cast iron burners (150 thru 400 size have die formed aluminized steel burners with stainless steel insert). All models have built-in draft hoods, adjustable horizontal louvers, fan and limit controls, and 24 volt transformer. Standard Gas controls are A.G.A. listed combination control valves which include thermocouple actuated 100% shutoff safety pilot, electric gas valve, pressure regulator (natural gas only) manual main control valve, and pilot gas adjustment. The fan and motor support is mounted on FINGER-FLEX shock absorbers. The heat exchanger is aluminized steel or stainless steel, as ordered. Basic units are for use on 115 volt, 60 hertz, single-phase, alternating current (see option section for other voltages at extra cost). Motors are totally enclosed and are protected by UL approved automatic reset overload switches. The outer cabinets of all models are finished in high temperature, scuff-resistant baked enamel over bonderized protected steel.

PROPELLER TYPE UNIT HEATERS 24 VOLT CONTROLS

The thermostat is not included in the unit heater price.

Btuh Input	Btuh Output	Ordering Number	ALUMINIZED STEEL	E-3 STEEL	Approximate Shipping Weight
25,000	20,000	LUH 25	\$ 474.50	\$ N/A	69
50,000	40,000	LUH 50	504.60	N/A	115
75,000	60,000	LUH 75	529.00	N/A	152
100,000	80,000	LUH 100	602.00	1138.00	165
125,000	100,000	LUH 125	705.30	1248.20	207
150,000	120,000	LUH 150	812.00	1459.30	239
175,000	140,000	LUH 175	901.40	1597.40	264
200,000	160,000	LUH 200	944.30	1715.70	265
225,000	180,000	LUH 225	994.20	1854.90	275
250,000	200,000	LUH 250	1148.40	1994.10	382
300,000	240,000	LUH 300	1307.40	2437.20	424
350,000	280,000	LUH 350	1568.90	2795.60	532
400,000	320,000	LUH 400	1779.50	3077.50	534

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND
CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.



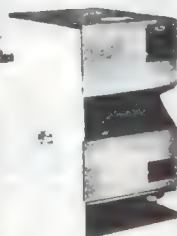
AGB Series 24-VOLT

For natural and propane gases

Cast Iron Gas Fired Packaged Boiler for Forced Hot Water
Factory Assembled, Wired and Crated

Approved for installation on combustible flooring

Boiler No.	*A.S.A. Rating		I = B = R Net Output Btu/Hr.	†Net Rating Sq. Ft. HW	‡Recom- mended Air Cusion Tank	Approx. Ship. Wgt.	EACH
	Input Btu/Hr.	Output Btu/Hr.					
50 AGB	50,000	40,000	34,800	232	15	255	\$ 1081.20
75 AGB	75,000	60,000	52,200	350	15	305	1198.60
100 AGB	100,000	80,000	69,600	465	15	310	1249.10
125 AGB	125,000	100,000	87,000	580	15	355	1386.30
150 AGB	150,000	120,000	104,300	695	15	360	1434.90
175 AGB	175,000	140,000	121,700	810	15	420	1577.60
200 AGB	200,000	160,000	139,100	925	30	425	1684.10
225 AGB	225,000	180,000	156,500	1,045	30	490	1837.50
250 AGB	250,000	200,000	173,900	1,160	30	495	1956.70
275 AGB	275,000	220,000	191,300	1,275	30	550	2120.90
300 AGB	300,000	240,000	208,700	1,390	30	555	2342.90



‡Orifice size furnished: Natural Gas, #46; Propane Gas, #56
*Propane Gas inlet, all units, 1/2".

STANDARD EQUIPMENT

Boiler Jacket, Cast Iron Boiler Battery, Combination Aquastat Relay, Thermiter Gauge, Circulator with return piping to boiler, Main Gas Burners, Combination 24 Volt Gas Control (includes automatic gas valve, manual shut-off valve, gas pressure regulator, automatic pilot, pilot flow adjustment, pilot filter), A.S.M.E. 30 lb. Relief Valve, Drain Cock, Combustible floor shield, wiring harness, low voltage thermostat, thermocouple, and non-linting safety pilot.

OPTIONAL EQUIPMENT — specify on order

Filtrol 109 System with 690 vent and scoop	
Filtrol 110 System with 690 vent and scoop	
Electric Ignition in lieu of standard	
Electric Ignition plus Flair Damper Pac	
Electric Ignition "Field Fix Kit" (sold separately)	
T87F Thermostat in lieu of standard	
Millivolt controls in lieu of standard 24 volt	
High limit control for continuous circulation deduct	
Conversion kit — natural to propane gas — less gas valve	
B & G-100 Series or TACO 110 Circulator	



**DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND
CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.**



SERIES PEG

GAS FIRED STEAM BOILERS

Cast Iron Packaged Boiler — Factory Assembled, Wired and Crated

BOILER SIZE	A.G.A. RATINGS		NET I - B - R OUTPUT	NET I - B - R RATINGS	Flue Diameter Inches	Approx. Ship Wt. Lbs.	EACH
	INPUT*	GROSS OUTPUT	BTU/HR. NAT.-	BTU/HR. NAT.-			
	BTU/Hr. Nat.-	BTU/Hr. Nat.-	Steam	Steam			
PEG-77-S	77,000	61,600	46,500	194	5	300	\$ 1472.88
PEG-112-S	112,500	90,000	67,500	281	5	375	1626.30
PEG-150-S	150,000	120,000	90,000	375	6	435	1795.90
PEG-187-S	187,500	150,000	112,500	469	7	515	1953.00
PEG-225-S	225,000	180,000	135,000	563	8	580	2160.60
PEG-262-S	262,500	210,000	157,500	656	8	635	2355.70
PEG-300-S	300,000	240,000	180,000	750	9	725	2572.20

*NOTE: For altitudes above 2,000 ft. ratings should be reduced at the rate of 4% for each 1,000 ft. above sea level.

STANDARD EQUIPMENT

Crated Boiler
Deluxe Jacket
Polyethylene Cover
Lanced Steel Burners
Combination Gas Control (Millivolt)
includes Automatic Gas Valve, Manual shut off valve,
Gas Pressure Regulator, Pilot Filter
and Pilot Cock with throttle adjustment.
Pressure High Limit Control
Pressure Vacuum Gauge
Gauge Glass and Fittings
2-2" Supply Tapping — L.H. Plugged
2-2" Return Tappings — L.H. Plugged

Drafthood
Low Water Cut-off (External Type)
Wiring
**Millivolt Thermostat
**Pop Safety Valve
**Boiler Drain

**Packed in Separate Carton

OPTIONAL EQUIPMENT

24 Volt System (Optional)



Reg. U.S. Pat. Off.



AGA Certified
for Natural Gas

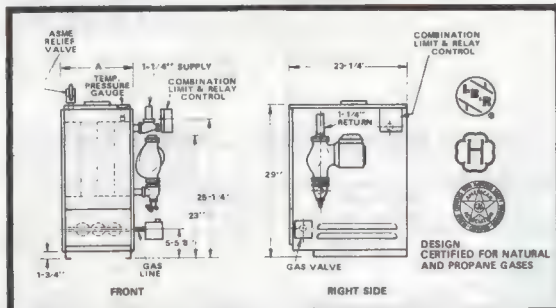
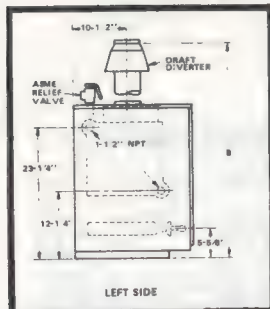
DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND
CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

CROWN/ARUBA

STANDARD EQUIPMENT

- Completely Factory Assembled, Pre-wired and Crated
- Two-tone Gold and Beige Jacket
- Combination Limit & Relay (L-8148E)
- 1 1/4" Circulator
- Boiler/Drain

- One-piece Cast Iron Burners
- Combination Gas Valve
- Thermostat
- Pilot Burner
- A.S.M.E. Relief Valve
- Theraltimeter Gauge
- Draft Diverter



MODEL	NO. SEC.	+ NATURAL GAS				+ PROPANE GAS				FLUE DIA. IN.	DIMENSIONS INCHES		APPROX. SHIPPING WEIGHT PACKAGED
		A.G.A. INPUT *MBH	A.G.A. OUTPUT *MBH	I-B-R RATING *MBH	ISO. FT. 185 BTU @ 190° F.	A.G.A. INPUT *MBH	A.G.A. OUTPUT *MBH	I-B-R RATING *MBH	ISO. FT. 185 BTU @ 190° F.		A	B	
DG-75	3	75.0	60.0	52.2	282	70.0	56.0	48.7	263	5	10-3/4	44-3/4	220
DG-112	4	112.5	90.00	78.0	423	105.0	84.0	73.0	395	6	14	57-5/8	270
DG-150	5	150.0	120.0	104.3	564	140.0	112.0	97.4	527	6	17-1/4	57-5/8	325
DG-187	6	187.5	150.0	130.4	705	175.0	140.0	121.7	658	7	20-1/2	58-7/8	378
DG-225	7	225.0	180.0	156.5	846	210.0	168.0	146.1	790	7	23-3/4	58-7/8	434
DG-262	8	262.5	210.0	182.6	987					8	27	60	490
DG-300	9	300.0	240.0	208.7	1128					8	30-1/4	67	546

DG-75	* \$ 1574.86	\$ 1484.00	DG-187	* \$ 2281.64	\$ 2180.00
DG-112	* 1746.86	1656.00	DG-225	* 2513.64	2412.00
DG-150	* 2049.64	1948.00	DG-262	* 2733.64	2632.00
			DG-300	* 3013.64	2912.00

* WITH EXTROL, AIR VENT, FILL VALVE

SUNTEMP HOTWATER BASEBOARD

700A	3/4" COPPER COMPLETE (WHITE)	PER FOOT	\$ 6.04
700AW	3/4" COPPER COMPLETE (WOODGRAIN)	PER FOOT	Price in effect

BLANK SECTIONS & ACCESSORIES AVAILABLE, PRICES UPON REQUEST

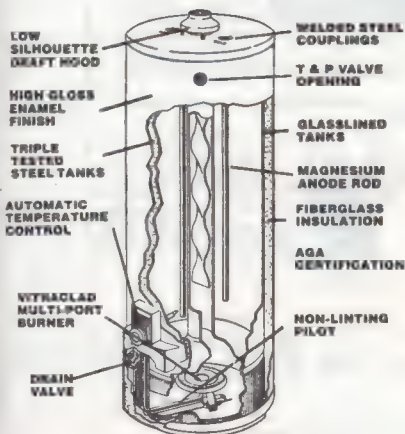
DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

WATER HEATERS

RUUDGLAS PACEMAKER

WATER HEATERS GAS

MODEL	WARRANTY	GALS.	BTUH	EACH
* RP30B-37	5	30	44,000	\$ 233.16
* RP40B-38	5	40	45,000	242.54
RP50B-42	5	50	50,000	309.54
RP75-63	5	75	75,500	812.04
RP100-63	5	100	75,500	1254.24
* RT230B-45	10	30	53,000	436.84
* RT240B-45	10	40	53,000	487.76
RT250-63	10	50	75,000	568.16
RT275-63	10	75	75,000	873.68
RT2100-63	10	100	75,000	1270.36



PACEMAKER ELECTRIC

** 30 Gallon	\$ 237.18
** 40 Gallon	230.48
** 52 Gallon	272.02
66 Gallon	458.28
82 Gallon	525.28
120 Gallon	841.52
40 Gallon (closet)	278.72

POINT OF USE ELECTRIC

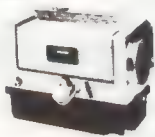
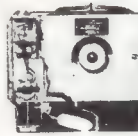
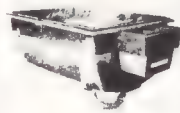
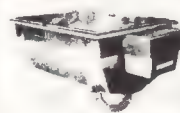
6 Gallon	\$ 195.54
10 Gallon	206.36
15 Gallon	222.44
17 Gallon	
20 Gallon	251.92
30 Gallon	262.64

* - Also available in SHORT models at the same price:

** - Also available in LOWBOY models - Add \$10.00 each.

autoFlo

* with humidstat

Model 97 	model 97 The 97 power humidifier can be adapted to almost any forced warm-air heating system. Rugged plastic construction. Easy-open lift-off stainless steel cover. Ideal for larger homes. Plenum opening 8 1/2" W. x 7 1/2" H.	\$ 177.80 * 199.40	Regent 200-P 	model 200-P Improved model of 200-P. Twice the output. Includes all hardware, water hose of flexible duct. Plenum opening 11" W. x 11" H.	\$ 133.00 * 154.52
Crown 40 	model 40 Self-contained power humidifier—pump-type. A versatile, deluxe, stainless steel power unit—high capacity for medium-sized homes. Plenum opening 12 1/2" W. x 10" H.	242.20 * 263.60		model X-15 120V A power humidifier designed for electric furnaces and heat pumps. A 1.4 kw heat element steams water into the furnace plenum or duct for clean, dry humidity. Stainless steel construction.	489.88 * 514.06
	model 40-S Self-contained power humidifier—drain-type. All the famous Crown features, including high output. Water usage is solenoid controlled—recommended for hard-water areas. Plenum opening 12 1/2" W. x 10" H.	242.20 * 263.60	Duke 450 	model 450 AutoFlo's newest... an economical, automatic humidifier with surprising capacity! An air driven, rotary-drum unit in lifetime plastic case. No-problem installation/service. Patents applied for. Plenum opening 11" W. x 8 1/2" H.	95.40
	model 40-W Self-contained power humidifier—pump-type with a 24-volt control kit. A high capacity unit, designed and built for easy installation, long life. Plenum opening 12 1/2" W. x 10" H.	247.00 * 268.60	Classic 	model 150-P Space age version of the famous Auto-Flo 150 plate humidifier. Made of heat resistant plastic. Fits any warm air furnace (except gravity). Supplied with 5 glassfiber plates with drain clips.	34.20
	model 707A A duct type humidifier with 16 dura-disc's, 115V synchronous motor with 9 ft. pre-wired cord. Duct opening 12 1/2" x 17 1/2". For Plenum mounting use 60500.	158.40 * 182.00		model no. 052101 Return-air, furnace mounting only. Two-wire, line or low voltage. Manual "off" position. (H49A)	40.24
	model 727 A duct type humidifier with 21 dura-disc's, 115V single pole shaded motor with built-in thermostat with 9 ft. of power cord, duct opening 12 1/2" x 17 1/2". For Plenum mounting use 60500.	192.40 * 213.80	Sentinel Combination humidistat 	model no. 052000 New AutoFlo combination Humidistat—for wall/duct mounting, line/low wiring.	27.60
	model 877 The AutoFlo Portable Electronic Air Cleaner cleans the air 4 to 6 times per hour in an enclosed 15 x 15 ft. room. 2 speed fan (low 100 CFM high 150 CFM). 20 1/2" h x 13 w x 10 1/2" depth.	420.42	model no. 016550 Universal-type for ALL plate humidifiers. Made of unbreakable glass fibers. Packed five to a set. —24 sets in standard package.	4.46	



model 97		
Cat. No.	Nomenclature	EACH
97 EP	Evaporator Pad	10.54
900018	Complete Float Assembly	8.38
800111	Media Wheel Only	15.40
900015	Motor & Mounting Plate	22.96
model 40 Crown		
40 EP	Evaporator Pad	10.54
40410	Fan Motor	36.46
40460	Fan Blade	7.56
40900	Water Trough Assembly	9.72
40910	Water Pan — Model A40 and A40-W	11.62
40940	Water Pan — Model A40-S	11.62
010507	Rubber Stop	1.08
010531	Orifice Assembly	2.70
025170	Water-Line Assembly	5.40
040260	Solenoid Assembly	51.84
040540	Relay	27.28
040560	Transformer	11.62
040610	Pump/Motor Assembly	44.82
040710	Complete Float Assembly	8.92
model 240-D		
240 DEP Pad		10.12
9354 EP	Cage	
9317	Motor, only	
9329	Float Assy.	
9324	Drain Plug	
9309	Water Pan	
9338	Mtg. — Frame	
9316	Motor Cover	
model 80 Imperial		
80 EP	Evaporator Pad	30.92
80027	Fan Motor	
model 450 Duke		
450 EP	Evaporator Pad	5.18
459121	Pad Holder	7.70
459329	Complete Float Assembly	8.38
010531	Orifice Assembly	2.70

model 200-P Regent		
Cat. No.	Nomenclature	EACH
200 EP	Evaporator Pad	8.64
20007	Complete Float Assembly	8.38
27200	Pad Holder	7.84
20015	End Caps — Model 200-P	
20022	Transformer	14.20
20025	Water Pan — Model 200-P	11.62
20028	Motor Assembly	18.64
010507	Rubber Stop	1.08
010531	Orifice Assembly	2.70
Models 182, 707 and 727		
Cat. No.	Nomenclature	EACH
70008	Motor-H.D.	66.78
727DA	21 Disc Assy.	55.08
707DA	16 Disc Assy.	43.88
182DA	11 Disc Assy.	
70014	Float Assy.	13.78
182DAK	11 Disc Kit	
707DAK	16 Disc Kit	25.12
727DAK	21 Disc Kit	
70013	Wedge	.82
50002	Motor	23.22
Model X-15		
Cat. No.	Nomenclature	EACH
1583	Heater, 1400W, 120v	67.78
1255	Fan Switch Kit Old Style	25.24
1521	Float Valve Assy.	42.12
1539	1400W Heat Element Old Style	85.18
1534	Low Level Float Assy.	33.22
1549	24V Relay	16.60
1562	24V Transformer	25.12
1278	Heater, 2000W, 220V	73.72
1570	Ball Float (Only)	22.68
1573	Sausage Float (Only)	14.58
1581	Fan Switch, X15A	10.80
1284	Duct Adaptor	58.06

electronic air cleaners

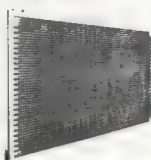
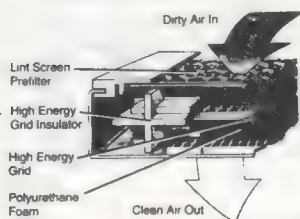
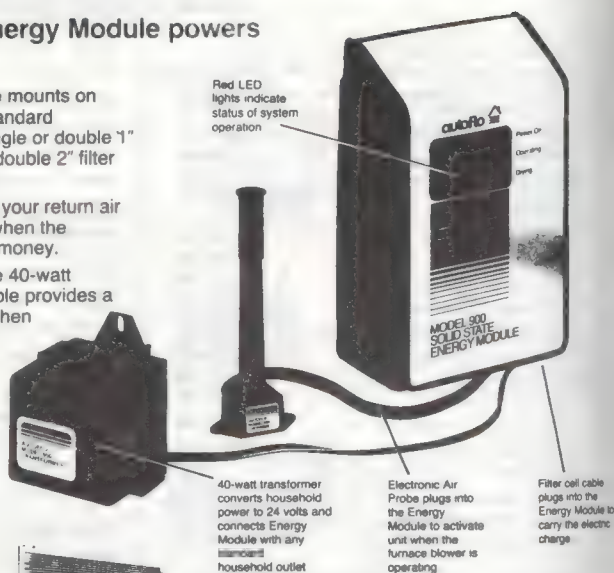
Compact Solid State Energy Module powers all AutoFlo filter cells.

The solid state 900 Energy Module mounts on your furnace and plugs into any standard household outlet. It powers any single or double 1" filter cell system . . . any single or double 2" filter cell system.

The electronic air probe mounts in your return air duct. It activates the system only when the furnace blower is on, so you save money.

And there's built-in safety, too. The 40-watt transformer on the main power cable provides a non-hazardous electrical source when plugged into any standard household outlet.

AutoFlo's solid state dependability and scientific technology give you years of clean, fresh air — efficiently and economically.



1" AutoFlo Filter Cells are easily installed in the majority of all forced air systems.

Solid state circuitry lets AutoFlo pack a lot of advanced technology in one small, uncomplicated unit. No wiring. No tubes. No fuses. No fuss. Solid state engineering simplifies the system; AutoFlo ingenuity purifies the air.



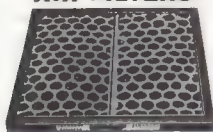
910 Electrostatic Air Filter Cell

Model No.	Description	Nominal Dimensions	EACH	Model No.	Description	Nominal Dimensions	EACH
-3020	Filter Cell	30x20x2	\$ 274.64	-3020	Filter Cell	30x20x1	\$ 183.58
-2525	Filter Cell	25x25x2	273.30	-3024	Filter Cell	30x24x1	191.32
-2520	Filter Cell	25x20x2	247.40	-2525	Filter Cell	25x25x1	171.08
-2516	Filter Cell	25x16x2	218.62	-2520	Filter Cell	25x20x1	171.96
-2514	Filter Cell	25x14x2	216.98	-2516	Filter Cell	25x16x1	146.32
-2020	Filter Cell	20x20x2	222.02	-2514	Filter Cell	25x14x1	137.64
-2016	Filter Cell	20x16x2	204.30	-2020	Filter Cell	20x20x1	143.16
				-2016	Filter Cell	20x16x1	136.86

900 POWER MODULE \$ 219.94

POWER MODULE + CELL = COMPLETE UNIT

DISPOSABLE AIR FILTERS



The complete line of Facet Air Filters
for Heating, Ventilating, and Air
Conditioning Systems

FILTER SIZE (inches)	QUANTITY PER CARTON (order quantity)	WEIGHT PER CARTON (pounds)	DIMENSIONS OF CARTON (inches)			FULL CTN EACH
			L	W	D	
8x16x1	12	4.5	20	10	12	\$ 1.38
10x10x1	12	3.5	10	10	12	1.38
10x20x1	12	6.0	20	10	12	1.38
10x24x1	12	7.0	25	13	12	1.34
10x25x1	12	7.5	25	12	14	1.46
10x30x1	12	8.3	31	12	13	1.46
12x20x1	12	7.0	21	12	15	1.38
12x24x1	12	8.0	25	13	12	1.38
12x25x1	12	8.5	25	12	14	1.38
12x30 $\frac{3}{8}$ x1	12	9.3	31	12	13	1.80
14x20x1	12	7.8	21	12	15	1.38
14x25x1	12	9.0	25	12	14	1.38
15x20x1	12	8.0	20	12	16	1.38
15x30 $\frac{3}{8}$ x1	12	11.0	31	12	16	1.80
16x16x1	12	7.0	20	12	17	1.46
16x20x1	12	8.0	20	12	17	1.38
16x22 $\frac{1}{4}$ x1	12	8.8	23	12	17	1.80

FILTER SIZE (inches)	QUANTITY PER CARTON (order quantity)	WEIGHT PER CARTON (pounds)	DIMENSIONS OF CARTON (inches)			FULL CTN EACH
			L	W	D	
16x25x1	12	10.0	25	12	17	\$ 1.38
18x25x1	12	10.8	26	12	19	1.46
19x27x1	12	12.0	27	12	19	1.80
20x20x1	12	10.0	20	12	20	1.38
20x22 $\frac{1}{4}$ x1	12	10.5	23	12	20	1.80
20x25x1	12	12.0	25	12	20	1.46
22x22x1	12	11.8	23	12	23	1.80
25x25x1	12	13.5	26	12	26	1.80
10x10x2	12	4.8	20	10	12	2.02
10x20x2	12	7.8	20	10	23	2.02
15x20x2	12	10.3	20	15	23	2.02
16x20x2	12	10.3	20	23	17	2.02
16x25x2	12	13.0	25	23	17	2.02
20x20x2	12	12.3	20	23	20	2.02
20x25x2	12	14.5	25	23	20	2.12
25x25x2	6	9.3	26	12	26	2.20

Trim-it-yourself window air conditioner filters from Fram

Trim it to size with ordinary scissors, quickly and easily. 15" x 24" size... fits almost all room air conditioning units.

\$ 1.04 Each

Wash it, quickly and easily, and use again and again. All-aluminum expanded foil. No rust to worry about... no fabric deterioration, either. Quality built for satisfaction by Fram... the filter people.

General Power Humidifiers



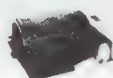
Model
1099



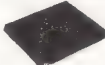
Model
727



Model
1040



Model
747

1040 POWER HUMIDIFIER Drain type humidifier, fiber glass reinforced cabinet, complete with 115V. solenoid valve, humidity selector control, 15ft of drain hose, saddle valve and brass fittings. (Copper tubing and 6 inch pipe not included.)	\$ 128.40	1099 POWER HUMIDIFIER Drain type humidifier, fiberglass reinforced cabinet, complete with 115V. solenoid valve, 7 inch stub collar, 15ft. drain tube, saddle valve and brass fittings. (Copper tubing and 7 inch pipe not included.)	\$ 172.80
1040-L POWER HUMIDIFIER Same as 1040 but with 24V. solenoid valve and transformer allowing 24V. control circuit.	135.42	1099-L POWER HUMIDIFIER Same as 1099 but with 24V. Solenoid valve and transformer allowing 24V. control circuit.	179.16
975 RECIRCULATING PUMP KIT Motor driven, adjustable flow centrifugal pump complete with reservoir, float level control, supply hose and hose clamps. For use with 1040 Series, 990 Series and other drain type humidifiers. Eliminates drain requirements. 115V., 60cy.	93.30	747 POWER HUMIDIFIER Duct type humidifier, 115 V., with cord & plug, built in manual Humidity Control, quick-drain, self tapping saddle valve & 10 ft. of 1/4" plastic water supply tubing.	135.30
727 DRUM TYPE POWER HUMIDIFIER Drum type humidifier, fiber glass reinforced cabinet, complete with humidity selector control, 6" by pass assembly, transformer, 10 feet of hook-up wire, self tapping saddle valve and 10 feet of 1/4" plastic water supply tubing.	172.50	747-L POWER HUMIDIFIER Same as 747 humidifier, but with 24 V. drive motor, 24 V plug-in transformer & 10 ft. of low voltage hook-up wire. Use 747-L humidifier if humidistat is required.	143.54
1099-20 EVAPORATOR PAD	\$ 13.14	990-13 EVAPORATOR PAD Replacement pad for all 1040 and 990 Series	\$ 9.45
 Replacement Pad for 1099 Power Humidifier. New improved aluminum evaporator material is enclosed in heavy wire frame and channeling. Pad has super absorbent coating for maximum humidity output.		727-12 EVAPORATOR SLEEVE Replacement evaporator sleeve for 747 & 747-L humidifiers. Also fits 727 Humidifier.	8.34

HUMIDIFIER CONTROLS

	990-51 HUMIDISTAT Honeywell H49A, 2 wire line or low voltage with manual off position. For return air plenum mounting.	\$ 33.66
	990-54 HUMIDISTAT Honeywell H46D, Wall Mount, line or low voltage.	45.66
	990-57 HUMIDISTAT Honeywell H49B. Same as 990-51 (H49A) but with air flow sensing sail switch.	43.30
	990-75 HUMIDISTAT Honeywell H808B1004 Convertible humidistat for wall or duct mount. Low voltage only.	26.24

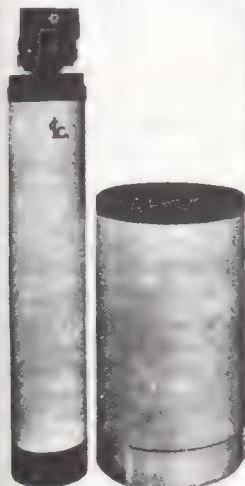
TEECO

TOTAL ENVIRONMENTAL EQUIPMENT CO.

16900 VAN DAM ROAD
SOUTH HOLLAND, ILLINOIS
60473

312/ 596-1212
596-1213

Automatic Water Conditioner



	15,000	22,000	32,000	40,000	45,000	60,000
Maximum Rated Capacity*	15,000	22,000	32,000	40,000	45,000	60,000
Optimum (w/o hardness leakage)†	9,500	14,300	19,000	25,500	30,600	38,200
Lbs. Salt Required (Min.)	2.7	4.0	5.3	7.1	8.5	10.6
Resin (cu. ft.)	0.5	0.75	1.0	1.25	1.50	2.0
Service Flow rate	8.0	9.0	9.5	10.0	10.5	11.0
Salt Storage Capacity (Lbs.)	250	250	250	250	250	300
Brine tank size	18½x32	18½x32	18½x32	18½x32	18½x32	18½x40
Floor space	18½x25	18½x26	18½x27	18½x28	18½x28	18½x30
Height	42	47	55	54	61	55
Approx. Ship. Wt. (Lbs.)	59	78	96	115	130	155
Each	431.50	469.00	517.00	552.00	600.00	747.00

two tank models

More Quality!  water conditioners are engineered for many years of maintenance free service. The fiberglass mineral tank provides maximum strength and will not rust or corrode. For greater efficiency, all models have five cycle, whisper quiet, recharging to save salt on regeneration and provide greater iron removal capacity. If your water conditioner should ever need servicing, it should never take more than a few minutes. The unitized valve module, molded of glass filled Noryl, allows complete control valve to be changed in just 3 minutes. And it's covered by a 3 year replacement guarantee.

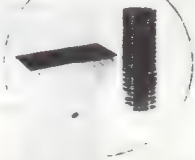


cabinet models

	15,000	22,000	32,000	40,000
Maximum Rated Capacity*	15,000	22,000	32,000	40,000
Optimum (w/o hardness leakage)†	9,500	14,300	19,000	25,500
Lbs. Salt Required (Min.)	2.7	4.0	5.3	7.1
Resin (cu. ft.)	0.5	0.75	1.0	1.25
Service Flow rate	8.0	9.0	9.5	10.0
Salt Storage Capacity (Lbs.)	160	200	180	160
Floor Space	10x16	12x20	12x20	12x20
Height	44	44	44	44
Approx. Ship. Wt. (Lbs.)	58	75	90	105
EACH	469.00	509.00	552.00	598.00

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND
CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

AUTOMATIC "IN-PAN" CONDENSATE AND WASTE WATER PUMPS

115 Volt Product Number		PRODUCT DESCRIPTION	SPECIFICATIONS						
			GALLONS PER HOUR						Shut Off
1'	3'	4'	5'	7'	8'				
550003 1-ABS		\$ 69.86 1-ABS Submersible Pump — motor sealed in oil — all covered with epoxy coating — waterproof, float operated switch. Compact 4 1/4" x 4 1/4" x 6". Equipped with 6', 3-conductor cord with 3 prong molded plug. Smooth intake, 1/4" male NPT discharge.	205	180	180	145	95	65	10'
550100 TKT		\$ 12.88 550100 TANK KIT FOR ABOVE Polymer corrosion proof tank, lightweight, for use where a tank is required to catch draining water. Set Model 1-ABS in tank. Kit consists of tank, check valve, length of 1/4" tubing, 20' plastic hose. Height 3 1/2", width 4 1/2", length 9". When using 1/4" copper tubing gallons per hour will be reduced, shut off will remain the same.							

553081 VC-10		\$ 96.46 VC-10 Vertical type pump unit, high impact polymer base and impeller, stainless steel shaft. Equipped with safety switch, 3/8" O.D. polyethylene tube discharge. Height 9", width 6", length 12". Check valve included. 6' cord with plug. Replacement Pump 541549 VC-10	386	271	96				
		with check valve	50	42	27				1

BIG JOHN AUTOMATIC SUMP PUMPS

115 Volt Product Number		PRODUCT DESCRIPTION	SPECIFICATIONS							
			GALLONS PER HOUR				Shut Off	PSI	H.P.	WT. Lbs.
			5'	10'	15'	20'				
506154 6-CIA		\$ 164.78 6-CIA Submersible cast iron housing, polypropylene base, polycarbonate cover, lifetime oil supply. Diaphragm operated switch. Non-clog pumping head and impeller. Screened intake; 1¼" female NPT discharge. 1/3 H.P. input with sleeve bearings and thermal overload protector. 8' cord with 3 prong molded plug and breather tube U. L. Listed & CSA Listed.	2750	1750	750		18	7.8	1/3	18

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

AIR CONDITIONING CONDENSATE DRAIN PIPE

Item 0311 Female Adapter (S X FPT) .44 E	Item 0319 Tee (S X S X S) .42 E	Item 0310 Coupling (S X S) .22 E	Item 0313 90° Elbow (S X CTS) .48 E	Item 0631 Pipe Strap .28 E
Item 0317 90° Elbow (S X FPT) .60 E	Item 0314 90° Elbow (S X S) .36 E	Item 0318 Cleanout Tee (S X PLUG X S) 1.46 E	Item 0312 Male Adapter (S X MPT) .42 E	Plug (MPT) 3/4 x 1/2 .80 E

RIGID SUPER TUBE (6075) \$ 20.50 C
10' Lengths 100' Bundle

ALL PURPOSE CEMENT 1/2 PINT \$ 2.94
P TRAP (0320) 1.74

3/4 FLEXIBLE PLASTIC TUBE (5075) 100' Roll \$ 24.92

0613 Coupling 3/4x3/4 \$ 1.30 E	0603 Elbow 3/4x3/4 \$ 1.24 E
0628 Male Adapter 3/4x3/4MPT .87 E	0624 Female 90 Adapter 3/4MPT 1.44 E
0602 Tee 3/4x3/4MPTx3/4 1.44 E	

BRAMEC AIR PAD®

AIR CONDITIONING CONDENSER and HEAT PUMP BASES

STOCK SIZES	30" x 36"....\$ 35.10 E	24" x 44".....\$ 34.70 E
(4003) 3" PUMP UP	\$ 4.02 E	(4012) 10" PUMP UP..... 6.42

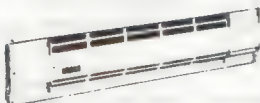
A - C PADS 2" CONCRETE STEEL REINFORCED STOCK SIZES

36" x 26"\$24.80	21" x 44" \$ 23.50
24" x 48"\$29.20	



RESIDENTIAL

COMMERCIAL



BASEBOARD HEATERS (CAST ALUMINUM GRID)

WATTS	LENGTH	BTUH	120V	208V	240V	277V	EACH
187 WATTS PER LINEAR FOOT							
500	40"	1717	9950	9955A	9955E	9950M	\$ 94.90
750	56"	2560	9950C	9955B	9955F	9950N	126.10
1000	72"	3415	9950F	9955C	9955G	9950P	156.00
1250	88"	4267	9950H	9955J	9955K	9950L	172.90
1500	104"	5120	9950J	9955D	9955H	9950Q	198.90
250 WATTS PER LINEAR FOOT							
650	40"	2219	9960	9960B	9955A	9955E	94.90
1000	56"	3415	9960C	9960E	9955B	9955F	126.10
1300	72"	4239	9960F	9960H	9955C	9955G	156.00
1650	88"	5634		9960M	9955J	9955K	172.90
2000	104"	6930		9960L	9955D	9955H	198.90

BASEBOARD HEATERS (ALUMINUM FINNED TUBE ELEMENT)

WATTS	LENGTH	BTUH	120V	208V	240V	277V	EACH
187 WATTS PER LINEAR FOOT							
375	28	1280	9710	9715	9715A	9710A	\$ 43.00
565	40	1930	9710B	9715B	9715C	9710C	53.00
750	48	2560	9710D	9715D	9715E	9710E	63.00
940	60	3210	9710F	9715F	9715G	9710G	73.00
1125	72	3840	9710H	9715H	9715J	9710J	84.00
1500	96	5120		9715K	9715L	9710L	103.00
1875	120	6400		9715M	9715N	9710N	125.00
250 WATTS PER LINEAR FOOT							
500	28	1787	9720	9720A	9715	9715A	43.00
750	40	2560	9720B	9720C	9715B	9715C	53.00
1000	48	3415	9720D	9720E	9715D	9715E	63.00
1250	60	4265	9720F	9720G	9715F	9715G	73.00
1500	72	5120	9720H	9720J	9715H	9715J	84.00
2000	96	6830		9720L	9715K	9715L	102.00
2500	120	8530		9720N	9715M	9715N	125.00

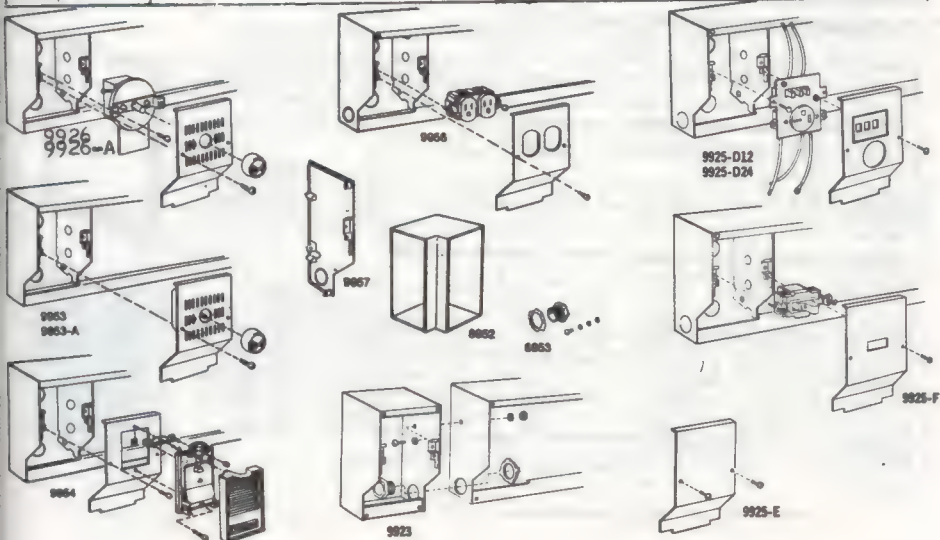
Phone For Quantity Discounts

SINGER
CLIMATE CONTROL PRODUCTS



FITTINGS FOR BASEBOARD HEATERS (SERIES 9950-9960 AND 9710-9720)

CATALOG NO	DESCRIPTION	EACH
9951	Blank Section 32" long	\$ 26.00
9951-A	Blank Section 56" long	29.00
9926	Thermostat S.P. Hydraulic	29.00
9926-A	Thermostat D.P. Hydraulic	36.00
9953	Thermostat S.P. Bi-Metal	16.00
9953-A	Thermostat D.P. Bi-Metal	18.00
9956	Duplex Receptacle Package includes Ivory Receptacle	9.00
9957	Hardware Set-For Blank Sections	9.00
9952	Inside-Outside Corner	11.00
9953	Hardware Set for joining units	4.00
9923	Connection Box	12.00
9925-D12	Transfer Switch Package includes switch and receptacle-120V	45.00
9925D24	Transfer Switch Package includes switch and receptacle-208/240V	45.00
9925-E	Blank Cover	6.00
9925-F	Cover for Disconnect Switch	6.00
9902-A	2" Wall Sleeve	
9904-A	4" Wall Sleeve	



SINGER

CLIMATE CONTROL PRODUCTS

RECESSED WALL MODEL, DOWN-FLO HEATERS

CATALOG NO	MODEL NO	CONTROL	WATTS	VOLTS	BTU	EACH
5990	W 15	Manual	1500	120	5122	\$ 171.00
5990-A	W 15	Manual	1500	240	5122	171.00
5990-F	W 20	Manual	2000	240	6830	176.00
5990-H	W 30	Manual	3000	240	10245	193.00
5990-R	W 40	Manual	4000	240	13660	207.00
5990-S	WA15	Auto	1500	120	5122	171.00
5990-T	WA15	Auto	1500	240	5122	171.00
5990-M	WA20	Auto	2000	240	6830	176.00
5990-N	WA30	Auto	3000	240	10245	193.00
5990-W	WA40	Auto	4000	240	13660	207.00
7-Designates 208 Volt Heater for above 240 Volt						N/C
13- Designates 277 Volt Heater for above						N/C
P-Tamper Proof Controls						8.00

SIZE 1.5&2KW-14"Hx11"Wx3" deep
3&4 KW -18"Hx14"Wx3" deep

SURFACE MOUNTED WALL BOXES

CATALOG NO	DESCRIPTION	SIZE	EACH
8754	For 1.5 & 2 KW	16"Hx13"Wx4"D	\$ 18.00
8753	For 3 & 4 KW	21"Hx16"Wx4"D	24.00

SEMI-RECESSED MOUNTED WALL BOXES

CATALOG NO	DESCRIPTION	SIZE	EACH
8754-A	For 1.5 & 2 KW	16"Hx13"Wx2"D	16.00
8753-A	For 3 & 4 KW	21"Hx16"Wx2"D	17.00

WALL MODEL, BATHROOM HEATERS

CATALOG NO	MODEL NO	CONTROL	WATTS	VOLTS	BTU	EACH
8751	WJA-12	AUTO	1250	120	4269	\$ 126.00
8751-B	WJA-12	AUTO	750	120	2550	126.00

WALL MODEL, Heavy Duty SMALL ROOM HEATERS

CATALOG NO	MODEL NO	CONTROL	WATTS	VOLTS	BTU	EACH
9755	WJ 12	Manual	1250	120	4269	\$ 148.00
9755-A	WJ 12	Manual	1250	240	4269	167.00
9755-B	WJ 12	Manual	1250	208	4269	167.00
9755	WJA12	Auto	1250	120	4269	148.00
9755-A	WJA12	Auto	1250	240	4269	167.00
9755-B	WJA12	Auto	1250	208	4269	167.00

SIZE 14"Hx11"Wx3" deep

Phone For Quantity Discounts



SINGER
CLIMATE CONTROL PRODUCTS

ELECTRIC UNIT HEATERS SERIES "EUH"

UNIT HEATERS — "EUH" SERIES

Capacity	Catalog No.	Supply Volts	Phase	Amps	Control & Motor Volts	Contactor	CFM	Air Temp Rise	Air Throw Ft.	MTB. Height Ft.	Ship Wt. Lbs.	EACH
3 KW 10,245 BTU	EUH03L	120	1	25	120	NOT REQ.	350	30°	15	8	36	305.00
	EUH03V	208	1	14.4	208	NOT REQ.	350	30°	15	8	36	271.00
	EUH03N	240	1	12.5	240	NOT REQ.	350	30°	15	8	36	271.00
	EUH03Y	277	1	10.8	277	NOT REQ.	350	30°	15	8	36	286.00
	EUH03W	208	1-3	14.4/8.3	208	BUILT IN	350	30°	15	8	40	314.00
	EUH03U	240	1-3	12.5/7.2	240	BUILT IN	350	30°	15	8	40	314.00
5 KW 17,075 BTU	EUH03K	480*	3	3.6	120	BUILT-IN	350	30°	15	8	42	415.00
	EUH05V	208	1	24.0	208	NOT REQ.	350	50°	15	9	36	282.00
	EUH05N	240	1	20.8	240	NOT REQ.	350	50°	15	9	36	282.00
	EUH05Y	277	1	18.0	277	NOT REQ.	350	50°	15	9	36	284.00
	EUH05W	208	1-3	24.0/13.9	208	BUILT IN	350	50°	15	9	40	322.00
	EUH05U	240	1-3	20.8/12.0	240	BUILT IN	350	50°	15	9	40	322.00
7.5 KW 25,613 BTU	EUH05K	480*	3	6.0	120	BUILT-IN	350	50°	15	9	42	426.00
	EUH08W	208	1-3	36.0/20.8	208	BUILT IN	600	46°	20	10	50	469.00
	EUH08U	240	1-3	31.7/18.1	240	BUILT IN	600	46°	20	10	50	469.00
10 KW 34,130 BTU	EUH08K	480*	3	9.0	120	BUILT IN	600	46°	20	10	52	469.00
	EUH10W	208	1-3	48.0/27.8	208	BUILT IN	600	60°	20	10	50	492.00
	EUH10U	240	1-3	41.6/24.1	240	BUILT IN	600	60°	20	10	50	492.00
12 KW 42,000 BTU	EUH10K	480*	3	12.0	120	BUILT IN	600	60°	20	10	52	492.00
	EUH12W	208	3	33.0	208	BUILT IN	600	75°	20	10	50	514.00
	EUH12U	240	3	28.8	240	BUILT IN	600	75°	20	10	50	514.00
	EUH12K	480*	3	14.4	120	BUILT-IN	600	75°	20	10	52	514.00

ALL UNITS HAVE A BUILT-IN THERMOSTAT. MAY BE FIELD RECONNECTED TO REMOTE WALL MOUNTED LINE VOLTAGE THERMOSTAT OR LOW VOLTAGE THERMOSTAT/RELAY. SEE OPTIONAL ACCESSORIES.

OPTIONAL FACTORY-INSTALLED ACCESSORIES . . .

On special order, the following optional accessories can be factory installed. Contact factory for delivery information.

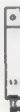
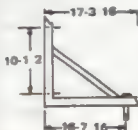
ADD THE APPROPRIATE SUFFIX TO THE BASIC CATALOG NO.

EACH

01	Summer fan switch	\$ 18.00
02	24-volt transformer/relay	46.00
03	Summer fan switch plus 24-volt transformer/relay	60.00
10	10 fuse block (with fusing)	31.00
11	10 fuse block plus summer fan switch	45.00
12	10 fuse block plus 24-volt transformer/relay	74.00
13	10 fuse block plus summer fan switch, plus 24-volt transformer/relay	90.00
30	30 fuse block (with fusing)	41.00
31	30 fuse block plus summer fan switch	57.00
32	30 fuse block plus 24-volt transformer/relay	85.00
33	30 fuse block plus summer fan switch, plus 24-volt transformer/relay	102.00

OPTIONAL FIELD-INSTALLED ACCESSORIES

EUAF	Fan switch (continuous operation)	14.00
EUARL	24 volt control (transformer/relay for all 120 volt units) and 480 units (K SERIES)	41.00
EUARW	24 volt control (transformer/relay for all 208 volt units)	41.00
EUARU	24 volt control (transformer/relay for all 240 volt units)	41.00



RECOMMENDED THERMOSTATS For use with above unit heaters

CATALOG NO.	5258	24 volt low voltage	18.00
CATALOG NO.	1680	Line volt pilot duty	63.00
CATALOG NO.	3636	HANGER BRACKET For use with the above unit heaters	22.00



SINGER

CLIMATE CONTROL PRODUCTS

7363

DRAFT BARRIER HEATERS

	CATALOG NO.	MODEL	LENGTH	WATTS	VOLTS	AMPS	BTU	SHIP WEIGHT* LBS	EACH
Surface Mounted	7363	DBS 3	36"	300†	240	1.2	1023	6	\$ 180.00
	7364	DBS 4	48"	400	240	1.6	1365	8	189.60
	7365	DBS 5	60"	500	240	2.1	1705	10	196.80
Note: The Following Variations Are Available for the above Basic Heaters. Add Suffix Letter to Base Catalog No.									
A—Designates Built-in Tamper Proof Thermostat*									add: 30.00

KSF HEATER



9270

CATALOG NO.	MODEL NO.	DESCRIPTION	VOLTS	SHIP WT. LBS.	EACH
9270	KSF	Applications 1. Kick Space 2. Soffit	120 240/208	12	153.00

*KSF Heater reconnectable for 120 or 240/208 volt operation. Wattage outputs are as follows:
Wattage 120 volts - 450 900 1350 1800; 240/208 volts 1800/1350, 900/675
BTUH 120 volts 1536 3073 4610 6147; 240/208 volts 6147/4610 3073/2305
Size 22 1/4" long, 9 1/2" deep, 3 1/2" high. Finish Black

THERMOSTATS AND CONTROLS



7391
7392

7391	Heavy Duty Line Voltage Single Pole	5 KW 240V 2.5 KW 120V 2" DIF	50°-90°	Vertical	Beige	1	\$ 12.00
7392	Heavy Duty Line Voltage Double Pole	5 KW 240V 2.5 KW 120V 2" DIF	50°-90°	Vertical	Beige	1	17.00



1680
3609

3609 TP	Heavy Duty Line Voltage Single Pole	5 KW 240V 3 KW 120V	40°-80°	Vertical	Bronze	2	79.00
1680	Heavy Duty Line Voltage Single Pole	5 KW 240V 3 KW 120V	55°-85°	Vertical	Gray	2	63.00



8117

7164-M	2-Stage	5KW per pole 240 V. 2.5KW per pole 120 V.	35°-90°	Vertical	Bronze and Brown	1	35.00
8117	Explosion-Proof Heavy-Duty Line Voltage Single Pole	5KW 120V. 4.5KW 208V. 5KW 240V. 5KW 277	40°-90°	Vertical	Grey	5	256.00

TP—Designates Tamper-Proof Thermostat

BRIGHT STAR

Industrial Flashlights



1618 (06250)	2-Cell (D), PR-6 Bulb	\$ 5.74
1618-CT (15220)	No. 1618 with Circuit Continuity Tester	\$ 14.14

HIGH INTENSITY HEAD LAMP



No. 3550
Non-conductive plastic lamp and battery case. Brilliant adjustable beam, 4½ volt power from 3 size D cells. For hands-free industrial and outdoor sports use. 12/std. shipper

3550 (05300)	Head Lamp with Battery Case, Uses 3 D Cells, PR-3 Bulb	\$ 14.00
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Lanterns \$ 6.54

601 (07260)	Hi-Impact Plastic Lantern, (uses No. 460 6 V. Lantern Battery, Not Included), push-button switch, assorted case colors: yellow and black, PR-13 Bulb	
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Flashlight Battery Packs

231-D (40810)	DD	3 Volt for 2-Cell (D) Flashlights 24 per Dispenser Display	\$ 1.26E
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Flashlight Batteries - 1½ Volt

10M (38210)	D	24 per Display Carton	\$.56E
11M (38880)	C	24 per Display Carton	\$.56E

Alkaline Batteries

7520-B (32280)	D	Two No. 7520 on Blister Card	\$ 2.54E
7522-B (32210)	C	Two No. 7522 on Blister Card	\$ 2.54E

25 (35780)	AA	Four No. 59 on Blister Card	\$ 1.86E
7526	AAA	Slim Penlite ALKALINE	\$ 1.30E

7524-B (32350)	AA	Two No. 7524 on Blister Card	\$ 2.54E
7590 (31900)		9 Volt	\$ 2.54E

ETCON TESTERS

	**RT300	Continuity Tester & Flashlight Combination	\$ 12.70
	RT300L	Replacement Lead	\$ 3.20
	RT300B	Replacement Bulb	\$ 1.34
	**RL400	R.L. 5 to 50 V AC/DC 24" Leads	\$ 12.70
	**RL401	R.L. 60 to 600 V AC/DC 24" Leads	\$ 12.70
	KT500	Continuity Tester (All Plastic)	\$ 6.22
	KT500B	Replacement Bulb	\$ 1.34
	KT500P	Replacement Metal Probe	\$ 1.34



CT-101

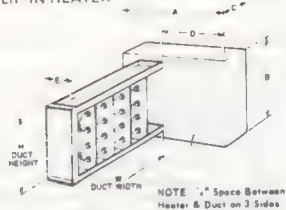


VT-200

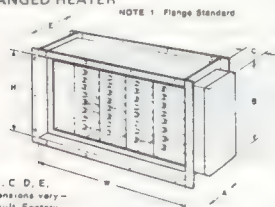
CT101	Receptacle & GFI Tester Combination	\$ 32.58
**CT102	Receptacle Tester Only	\$ 11.46
**VT200	Voltage Tester with Standard Prods 80 to 600 V AC/DC	\$ 24.56
VT200P	Replacement Metal Probes (2 pcs.)	2.66

Electric Duct Heaters

SLIP-IN HEATER



FLANGED HEATER



STOCK-LINE ELECTRIC DUCT HEATERS

Stock-Line slip-in type duct heaters are designed to meet most residential and light commercial requirements for use in forced air duct systems. They may be used as the primary source of heat or as supplementary or stand-by heat to Heat Pump, Gas, or Oil Fired Systems. Several units may be used in a large duct or systems with branch ducts for zoning or separate thermostat control. The heaters are designed to operate in a variety of duct sizes.

Stock-Line units are U.L. listed and meet the requirements of the National Electric Code (N.E.C.). The units have multi-voltage ratings, high grade nickelchrome elements, galvanized steel control panel and frame and Warren's patented element support system. Built in components include primary and secondary limit protection, magnetic contactors (24 volt control), a fan relay, and circuit fusing where required by U.L. and N.E.C.

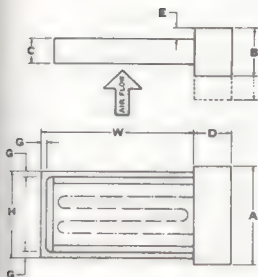
PLEASE CALL FOR PRICING INFORMATION

MODEL	KW	VOLTS	Phase	Steps	AMPS	FITS DUCT SIZES	DIMENSIONS							SHIP WT.
							A	B	C	D	E	HW	HH	
SL5A	4.8	240	1	1	20	8 x 8	9	9	6	4	1	7-7/8	7-7/8	14*
	4.4	230			19.1	10 x 10								
	4.0	220			18.3	10 x 9								
	3.6	208			17.3	12 x 8								
SL10A	9.6	240	1	1	40	12 x 8	9	9	6	4	1	11-7/8	7-7/8	15*
	8.8	230			38.2	12 x 10								
	8.0	220			36.6	14 x 10								
	7.2	208			34.6	12 x 12								
SL10B	9.6	240	1	1	40	10 x 10	11	9	6	4	1	9-7/8	9-3/4	15*
	8.8	230			38.2	12 x 10								
	8.0	220			36.6	14 x 10								
	7.2	208			34.6	12 x 12								
SL15A*	14.4	240	1	2	60	18 x 8	9	15	6	4	1	17-7/8	7-7/8	19*
	13.2	230			57.5	18 x 10								
	12	220			55	20 x 10								
	10	208			51.9	18 x 12								
SL15B*	14.4	240	1	2	60	15 x 10	11	15	6	4	1	14-7/8	9-3/4	19*
	13.2	230			57.5	15 x 12								
	12	220			55	16 x 12								
	10	208			51.9	15 x 14								
SL15T	15	240	3	2	36	15 x 10	11	15	6	4	1	14-7/8	9-3/4	17*
	13.6	230			34	15 x 12								
	12.6	220			33	16 x 12								
	11.2	208			31	15 x 14								
SL20A*	19.2	240	1	2	80	20 x 12	14	15	6	4	1	15-7/8	11-7/8	19*
	17.6	230			76.6	22 x 12								
	16.1	220			73.3	18 x 14								
	14.4	208			69.2	16 x 16								
SL20T	19.8	240	3	2	47.7	20 x 12	14	12	6	4	1	15-7/8	11-7/8	17*
	18	230			45.3	22 x 12								
	16.6	220			43.7	18 x 14								
	14.8	208			41.3	16 x 16								

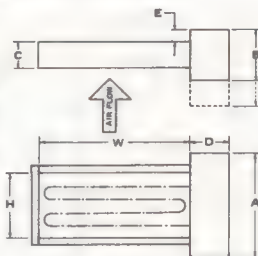
WARREN MOD-ULAR ELECTRIC DUCT HEATERS

CUSTOM BUILT MODELS UP TO 1000 KW

MOD-ULAR DUCT HEATER DIMENSIONS



A = VARIES WITH HEATER HEIGHT (H + 2" MIN)
 B = VARIES IN 3" INCREMENTS WITH COMPONENTS (6" MIN). OFFSET LEFT STANDARD. OFFSET RIGHT OPTIONAL.
 C = 3", 6", 9", 12" (VARIES WITH COIL SELECTION)
 D = 4" STANDARD (MAY VARY WITH COMPONENTS)
 E = 1" NOMINAL
 G = 3/8" NOMINAL
 W = DUCT WIDTH
 H = DUCT HEIGHT



A = VARIES WITH HEATER HEIGHT (H + 2" MIN)
 B = VARIES IN 3" INCREMENTS WITH COMPONENTS (6" MIN). OFFSET LEFT STANDARD. OFFSET RIGHT OPTIONAL.
 C = 3", 6", 9", 12" (VARIES WITH COIL SELECTION)
 D = 4" STANDARD (MAY VARY WITH COMPONENTS)
 E = 1" NOMINAL
 G = 3/8" NOMINAL
 W = DUCT WIDTH (SPECIFY FLANGE SIZE)
 H = DUCT HEIGHT (SPECIFY FLANGE SIZE)

SLIP IN MODELS CB & RP HEATER SECTION

FLANGED MOUNT MODELS CB & RP HEATER SECTION

Model RP Remote Control Panels will vary in size depending on the number of heaters controlled and the components required for each heater. For details, consult factory.

TO ORDER WARREN MOD-ULAR CB AND RP DUCT HEATERS, SUPPLY INFORMATION FOR EACH HEATER AS DETAILED BELOW.

— ACCESSORIES —

- A1 FAN CONNECTION (LINE VOLTAGE CONTROL ONLY)
- A2 Terminal Blocks
- B1 FAN RELAY
- B2 Pilot Relay
- B3 Mercury Contactors
- B4 Silent Contactors
- B5 Back Up Contactors or Safety Contactors (Disconnecting All Lines)
- B6 Disconnecting Contactors
- C1 AIR PRESSURE SWITCH
- C2 Time Delay Between Steps
- C3 Pilot Switch (DeEnergize All Contactors)
- C4 Pilot Switch (DeEnergize Each Step)
- C5 P. E. Switches (Furnished and Factory Wired)
- C6 P. E. Switches (Furnished by Others Factory Wired)
- D1 TRANSFORMER CLASS II
- D2 TRANSFORMER WITH PRIMARY FUSING
- D3 Transformer Secondary Fuse
- E1 Manual Reset High Limit
- E2 Linear Limit Control - Automatic Reset
- E3 Linear Limit Control - Manual Reset
- F1 CIRCUIT FUSING PER U. L. AND N.E.C.
- F2 One Fuse Block Per Step
- F3 One Fuse Block Per Heater (For Heaters Less Than 48 Amps)
- G1 Pilot Light (Control Circuit On)
- G2 Pilot Light (Each Step Is On)
- G3 Pilot Light (Thermal Cut Out Is Open)
- G4 Pilot Light (Air Switch Is Open)
- H1 Thermostat - Low Voltage
- H2 Thermostat - Line Voltage
- H3 Thermostat - Duct
- H4 Thermostat - Modulating
- H5 Thermostat - Outside Air
- H6 Thermostat - Other (See Special Instructions)
- J1 Disconnect Switches (Fused)
- J2 Disconnect Switches (Unfused)
- J3 Circuit Breakers
- K1 Step Controllers
- K2 Silent Relay
- L1 SCR Controls (Furnished and Factory Wired)
- L2 SCR Controls (Furnished by Others Factory Wired)
- L3 Transducer
- M1 De-rated Elements
- M2 80/20 Nickel Chrome Element
- N1 Stainless Steel Element Connections
- Q1 Insulated Control Panel
- Q2 Hinged Lid (Standard on Units with Manual Reset or Fusing)
- Q3 Panel Lock Keys
- R1 Aluminized Steel Construction
- R2 Stainless Steel Construction
- V1 Remote Control Panel
- V2 Flanged Mount
- V3 Unequal KW Per Steps
- V4 Recessed Terminal Box
- V5 Weather Protected Panel
- V6 Protective Screen - Air Entering/Leaving Side(s)

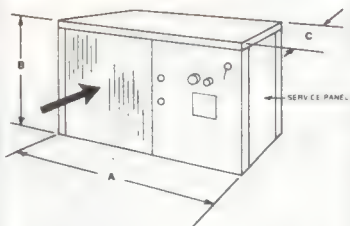
NOTES:

1. AT LEAST ONE OF THE ACCESSORIES MARKED WITH (*) IS NECESSARY TO MEET U. L. REQUIREMENTS
2. U. L. AND N.E.C. REQUIRE CIRCUIT FUSING FOR EACH HEATER OVER 48 AMPS
3. SPECIFY IF HEATER REQUIRES U. L. LABEL
4. Specify KW per step if steps are not equal.
5. Heaters will be sized for unlined ducts unless otherwise specified.
6. Control panel will be offset to the left of the element section when air flow is in a left to right direction unless otherwise specified. (See Sketch)
7. When specifying RP models select heater section(s) the same as CB models. Terminal blocks and air pressure switch (if specified) are contained in the heater section(s). All other components are contained in the co-ordinated remote control panel(s).

PLEASE CALL FOR PRICING INFORMATION

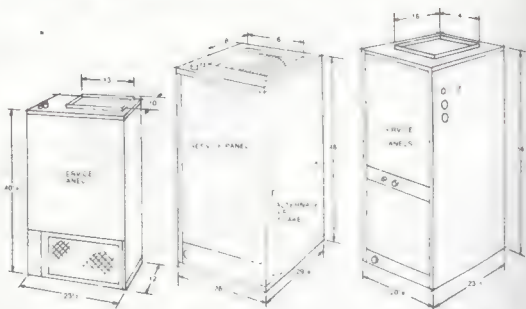
SPLIT HEAT PUMP SYSTEMS

OUTDOOR COMPRESSOR UNITS



MODEL	A	B	C
18HPQ 24HPQ	36"	21"	18"
30HPQ2 36HPQ2	40 1/4"	23 1/4"	23 1/4"
48HPQ1 60HPQ2	48 1/4"	31 1/2"	23 1/4"

INDOOR BLOWER COIL UNITS



Models B18EHQ and B24EHQ

Models B48HQ1 and B60HQ2

Model B36EHQ

Exceptionally efficient, Bard Split Heat Pump Systems combine the clean comfort of flameless electric heat with the cool luxury of central air conditioning. In any season, you merely select your indoor comfort level by setting the wall thermostat, *then forget it!* Your selected indoor temperature is maintained automatically, regardless of outdoor temperature variations.

CHARGED TUBING

FOR USE WITH 24HPQ 1

MODEL	LENGTH	LIQUID LINE	SUCTION	EACH
CT-15	15'	1/4"	5/8"	\$ 93.94
RW-25	25'	1/4"	5/8"	126.28
RW-35	35'	1/4"	5/8"	147.84
RW-45	45'	1/4"	5/8"	177.10

FOR USE WITH 30HPQ3 & 36HPQ3

MODEL	LENGTH	LIQUID LINE	SUCTION	EACH
CTO	0'	3/8"	3/4"	\$ 47.74
CT-15	15'	1/4"	5/8"	93.94
CT-25	25'	1/4"	3/4"	104.14
CT-35	35'	3/8"	3/4"	184.80
CT-45	45'	3/8"	3/4"	223.30

FOR USE WITH 42HPQ, 48HPQ2 & 60HPQ3

MODEL	LENGTH	LIQUID LINE	SUCTION	EACH
CTO-12	0'	3/8"	7/8"	\$ 56.98
CT 15-12	15'	3/8"	7/8"	133.98
CT 25-12	25'	3/8"	7/8"	180.18
CT 35-12	35'	3/8"	7/8"	231.00
CT 45-12	45'	3/8"	7/8"	278.74



PRE-CHARGED TUBING

Connects outdoor compressor unit to indoor blower coil unit or indoor heat pump coil for completing the refrigerant circuit. Quick-connect sealed couplings prevent system contamination during installation.

BARD SPLIT HEAT PUMP

SYSTEM INCLUDES OUTDOOR COMPRESSOR UNIT, INDOOR BLOWER COIL, OUTDOOR THERMOSTAT, COMPRESSOR CUTOFF AND AND INDOOR THERMOSTAT (WITH EMERGENCY HEAT OPTION). TO COMPLETE SYSTEM YOU MUST ADD CHARGED TUBING.

24,000 BTU COOLING 15 KW RESISTANCE HEAT	30,000 BTU COOLING 20 KW RESISTANCE HEAT	36,000 BTU COOLING 25 KW RESISTANCE HEAT
1-24HPQ1 COMPRESSOR UNIT 230 V 1Ø 1-B24EHQ-15 BLOWER COIL 1-T872C1004 INDOOR THERMO 1-Q672F1026 SUBBASE <u>\$ 2,267.58</u>	1-30HPQ3 COMPRESSOR UNIT 230 V 1Ø 1-B36EHQ-20 BLOWER COIL 1-T872C1004 INDOOR THERMO 1-Q672F1026 SUBBASE 1-A22 COMPRESSOR CUTOFF <u>\$ 2,707.24</u>	1-36HPQ3 COMPRESSOR UNIT 230 V 1Ø 1-B36EHQ-25 BLOWER COIL 1-T872C1004 INDOOR THERMO 1-Q672F1026 SUBBASE 1-A22 COMPRESSOR CUTOFF <u>\$ 2,902.82</u>
42,000 BTU COOLING 30 KW RESISTANCE HEAT	48,000 BTU COOLING 30 KW RESISTANCE HEAT	60,000 BTU COOLING 30 KW RESISTANCE HEAT
1-42HPQ COMPRESSOR UNIT 208/230 1Ø 1-B48EHQ-30 BLOWER COIL 1-RA-45 PLENUM 1-T872R1164 INDOOR THERMO 1-Q672L1185 SUBBASE 1-A22 COMPRESSOR CUTOFF 2-A22 OUTDOOR THERMO <u>\$ 3,645.18</u>	1-48HPQ2 COMPRESSOR UNIT 230 1Ø 1-B48EHQ-30 BLOWER COIL 1-RA-45 PLENUM 1-T872R1164 INDOOR THERMO 1-Q672L1185 SUBBASE 1-A22 COMPRESSOR CUTOFF 2-A22 OUTDOOR THERMO <u>\$ 3,765.30</u>	1-60HPQ3 COMPRESSOR UNIT 230 1Ø 1-B60EHQ-30 BLOWER COIL 1-RA-45 PLENUM 1-T872R1164 INDOOR THERMO 1-Q672L1185 SUBBASE 1-A22 COMPRESSOR CUTOFF 2-A22 OUTDOOR THERMO <u>\$ 4,113.34</u>



Power Unit - Residential Use

	MODEL NO.	DESCRIPTION	WT.	EACH
	851	DELUXE POWER UNIT - 2 H.P., 2 stage bypass type motor operates at 17,500 R.P.M. on 120V/60 HZ power and draws 13 AMPS. A built-in low voltage feature converts 120V to 16V. Separate motor ventilation and automatic overload protector. 14" diameter X 38" high; wall-mounted. Outside venting not necessary unless desired, as unit is equipped with heavy filter bag. Suction: Over 110' water lift. Vac line enters main unit above 28-quart dirt receptacle.	44	\$ 557.40

Attachment Set

	860	ATTACHMENT SET WITH NOSE ASSEMBLY- Includes 860HA, 860SW, 860HR, 860RT, 860FT, 860CT, 860UN, 860DB, 860SC.	10	104.50
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Attachments

	MODEL NO.	DESCRIPTION	WT.	EACH
	860CT	CREVICE TOOL, beige, plastic	1/2	\$ 4.70
	860DB	ROUND DUSTING BRUSH, beige, plastic	1/2	5.40
	860FT	FLOOR TOOL, beige, plastic	1	12.10
	860RT	RUG TOOL, beige, plastic	1	14.70
	860SC	ATTACHMENT STORAGE CARTON	1/2	7.40
	860SW	STRAIGHT WANDS, chrome, 2 pieces	1 1/2	11.40
	860TC	TOOL CADDY, black, plastic	2	42.90
	860UN	UPHOLSTERY NOZZLE & SLIP-ON BRUSH, beige, plastic	1/2	6.70

Installation Kits

MODEL NO.	DESCRIPTION	CARTON PACK	LBS. PER CARTON	EACH
865	3-INLET INSTALLATION KIT consisting of: 70' - 864T PVC tubing, 3 - 861PI inlet face plates, 3 - 862CA combination 90° wall adapter and Mounting bracket, 2 - 863L45 45° elbows, 6 - 863L90 90° elbows, 2 - 863Y90 90° 'Y', 10 - 863C coupling, 1 - 864S solvent, 1 - 8673 cable, 100 ft.	1	23	\$ 174.20
866	5-INLET INSTALLATION KIT consisting of: 5 - 861PI inlets, 5 - 962CA combination 90° wall adapters, 6 - 863L45 45° elbows, 12 - 863L90 90° elbows, 4 - 863Y90 'Y', 10 - 863C coupling, 1 - 864S solvent and 200 feet of low voltage wire. DOES NOT INCLUDE TUBING. ORDER SEPARATELY AS REQUIRED.	1	7	\$ 201.00

	MODEL NO.	DESCRIPTION	WT.	EACH
	852SV	MASTER VAC POWER UNIT - 2 H.P., 3-stage bypass type motor operates at 17,700 R.P.M. on 120V/60HZ power supply. 13 AMPS. Built-in low voltage control circuits for automatic operation of system. Automatic overload protection for motor. Outside venting is not required (unless desired). Unit features heavy-duty permanent filter bag. Suction: over 137 in. water lift for deep cleaning power. Unit is wall-mounted with bonus inlet and system tubing connection that can be interchanged to suit installation. Built in muffler. Dimensions: 14" diameter X 42"	48	\$ 710.20

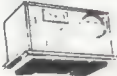
MASTER VAC Attachments

	862	MASTER VAC DELUXE ATTACHMENT SET WITH CONVENIENT CARRYING CASE - Complete set of tools for all cleaning jobs including: rug tool, floor tool, dusting brush, upholstery brush, crevice tool, 2 straight wands, 1 curved wand and deluxe carrying case. Items not sold separately.	7	\$ 87.80
	862HA	MASTER VAC DELUXE HOSE - Super flexible hose is 28' long and extra wear-resistant. Large 1 3/8" diameter helps clean faster and better.	8	70.30
	862 EB	MASTER VAC DELUXE ELECTRIC BRUSH - Powerful 120V electric motor and beater bar for deep cleaning. On/Off foot switch. New power cord clip guide on wand. Complete with 30' electric cord. UL listed.	10	210.40
	862 HAEB	CURRENT CARRYING HOSE - Optional accessory for 862 EB, above. Electrical cord is molded into hose, eliminates need for separate cord. 28' in length. UL listed.	12	194.30
	860 PB	AIR-DRIVEN POWER BRUSH - Helps lift dirt faster and with less effort.	3	76.40
	860 SRT	SHAG RUG TOOL - For cleaning and fluffing shag rugs.	1/2	26.80
	860 WP	WET PICK-UP ATTACHMENT - For removing water from floors. Includes water collection tank, 5' hose and squeegee tool. Ready to use.	14	100.50
	864T	PVC PLASTIC TUBE, 2" O.D. x 10' lengths heavy wall		\$ 9.80
	864S	1/4 PT. SOLVENT SEALER for PVC plastics		5.20
	863L45	45° PVC PLASTIC ELBOW		3.50
	863L90	90° PVC PLASTIC ELBOW		3.60
	863LS90	SHARP 90° PVC ELBOW		3.60
	863Y45	45° PVC PLASTIC 'Y'		3.90
	863Y90	90° PVC PLASTIC 'Y'		5.50
	863Y3	3 WAY PLASTIC 'Y'		6.70
	863RD	REDUCER BUSHING, PVC pipe to face plate		2.40
	863C	PVC PLASTIC COUPLING		1.60

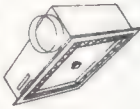
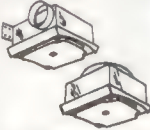
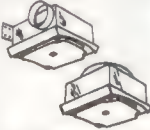
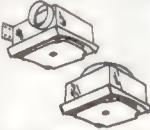
COMBINATION VENTILATORS (Heat/Light/Vent)

	MODEL NO.	DESCRIPTION	EACH
	659	Bathroom Ventilator/Heater/Light/Nite Light combination - 70 CFM - 1320 watt heater - includes control.	\$ 202.30
	694	Bathroom Ventilator/Heater/Light combination - 70 CFM (no control)	138.90
	660	Bathroom Ventilator and radiant heater in one unit. Maximum 500 watts (bulbs not included).	113.90

COMBINATION VENTILATORS (Light/Vent)

	MODEL NO.	DESCRIPTION	EACH
	656	Bathroom Ventilator/Light/Nite Light combination - impeller - includes control - 70 CFM.	\$ 143.40
	770	Bathroom Ventilator/Light combination - 110 CFM	107.10
	768	Bathroom Ventilator/Light combination - 90 CFM	101.70
	693	Bathroom Ventilator/Light combination - 70 CFM	87.10
	667	Bathroom Ventilator/Light combination - 60 CFM	63.60
	664	Bathroom Ventilator/Light combination - 50 CFM	59.60

BATHROOM VENTILATORS

	MODEL NO.	DESCRIPTION	EACH
	765	Bathroom Ventilator - 110 CFM - new decorator grille - easy mount - blower wheel.	\$ 89.80
	763	Bathroom Ventilator - 90 CFM - new decorator grille - easy mount - blower wheel.	83.10
	761	Bathroom Ventilator - 70 CFM - new decorator grille - easy mount - blower.	77.70
	6485	Bathroom Ventilator - 60 CFM - impeller - 3" discharge.	41.40
	647	Bathroom Ventilator - 50 CFM - impeller - 3" discharge.	29.20
	649	Bathroom Ventilator - 90 CFM - vertical discharge	42.20

Kitchen Vents

	760	Ceiling Ventilator - pressure blade-motor - housing - grille - damper - vertical discharge	\$ 66.30
	1080	Ceiling Ventilator - 10" blade - motor - housing - grille - vertical discharge	81.80
	800	Cell-N-Wall Ventilator Model 800 - 180 CFM; Model 1020 - 330 CFM; Model 800 has 8" impeller; 1020 has 10" impeller	100.50
	1020		124.60

Thru-the-Wall Kitchen Ventilators

	MODEL NO.	DESCRIPTION	EACH
	898 *	Thru-Wall Ventilator - wall switch operated - 190 CFM; 898 for wall 4-1/4" to 7-15/16"; 898T for wall 7-1/2" to 14-7/16"	\$ 95.10
	898T		99.20
	899	Thru-Wall Ventilator - self-contained pull chain switch - 250 CFM - 899 for wall 4-1/4" to 7-15/16"; 899T for wall 7-1/2" to 14-7/16"	107.20
	899T		111.20
	1047	Thru-Wall Ventilator -10" blade-480 CFM; 1047 for wall 4-1/4" to 8-1/4"; 1047T for wall 8" to 15-1/2". Self contained pull chain switch	116.60
	1047T		120.60

Accessories

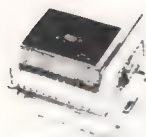
DESCRIPTION	MODEL NO.	USED WITH	EACH
Solid State Control "Dial your speed to suit your need"	629 *	All vents except 660 & 670	\$ 20.80
15 minute timer	1010	All Vents	29.50
One hour timer	1011 *	All Vents	31.50
12 Hour Timer	1012	All Vents	36.20
Wall cap	1117 *	All 3" & 4" rnd. duct	15.40
Roof Jack	1118 *	For up to 7" round duct	22.10
Wall cap (4 per carton)	1125 *	For 3-1/4" x 10" duct	16.10



DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND
CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

THERMOSTAT GUARDS

The CLASSIC Plastic Thermostat Guard TAMPER RESISTANT

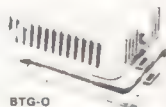


BTG-K

CATALOG
NUMBER
BTG-K (clear) \$ 17.88
BTG-O (opaque-beige) \$ 17.68

EACH CLASSIC PLASTIC THERMOSTAT GUARD IS PACKAGED
WITH ONE SOLID BASE AND ONE RING BASE.

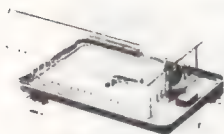
SOLID BASE INSIDE DIMENSIONS		
Height	Width	Depth
5- ¹ / ₄ "	4- ¹ / ₂ "	3"
RING BASE INSIDE DIAMETER		
Height	Width	Depth
5- ¹ / ₄ "	4- ¹ / ₂ "	3- ¹ / ₂ "



BTG-O

GUARDS CAN BE MOUNTED HORIZONTAL OR VERTICAL

The UNIVERSAL Plastic Thermostat Guard TAMPER RESISTANT

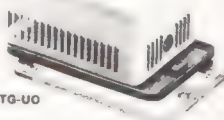


BTG-UK

CATALOG
NUMBER
BTG-UK (clear) \$ 18.68
BTG-UO (opaque-beige) \$ 18.68

EACH UNIVERSAL PLASTIC THERMOSTAT GUARD
IS PACKAGED WITH ONE SOLID BASE AND ONE RING BASE.

SOLID BASE INSIDE DIMENSIONS		
Height	Width	Depth
7- ¹ / ₂ "	5- ¹ / ₂ "	3- ¹ / ₂ "
RING BASE INSIDE DIMENSIONS		
Height	Width	Depth
7- ¹ / ₂ "	4- ¹ / ₂ "	3- ¹ / ₂ "



BTG-UO

GUARDS CAN BE MOUNTED HORIZONTAL OR VERTICAL

\$ 18.34



The ELITE Metal Thermostat Guard TAMPER PROOF

CATALOG NUMBER	Height	SOLID BASE INSIDE DIMENSIONS	
		Width	Depth
*BTG-EM (beige)	3- ¹ / ₂ "	3- ¹ / ₂ "	2- ¹ / ₂ "

THE ELITE METAL THERMOSTAT GUARD IS PACKAGED WITH SOLID BASE ONLY.



MODEL BTL-11 \$ 7.42

APPLICATIONS:

To Light Furnaces, Stoves, Boilers and Water Heaters, among a few examples, for the Oil and Gas user

The telescoping of the BTL-11 allows complete SAFETY from IGNITION FLASH BACK

Can be used for a screw starter for those hard to reach places.

T8082 FUEL SAVER THERMOSTAT



AUTOMATIC FUEL SAVER THERMOSTAT WITH BATTERY OPERATED CLOCK. NO NEED FOR SEPARATE TRANSFORMER TO POWER CLOCK.

This fuel saver thermostat with battery operated clock provides multiple periods of setup and setback in a 24-hour period. It allows the homeowner to select varying periods of setup and setback to meet his needs.

Honeywell

- * Programmable fuel saver thermostat provides multiple setback/setup periods in a 24-hour period.
- * Homeowner can program thermostat by placement of color-coded pins.
- * Color-coded temperature setting levers.
- * Models with manual advance allow homeowner to advance programmed thermostat to next cycle without changing placement of pins.

TRADELINE models.

ORDER NUMBER	WITH MANUAL ADVANCE	TYPE OF CONTROL	FEATURES	EACH
●T8082A1023	No	2 or 3-wire		N/A
●T8082A1031	Yes	2 or 3-wire		\$ 92.56
T8082A1056	No	2-wire	Celsius scaleplate	N/A

Q682 SUBBASE FOR FUEL SAVER THERMOSTAT

FOR USE WITH T8082 FUEL SAVER THERMOSTAT.

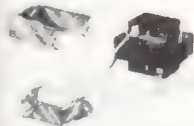
Provides system and fan switching and a mounting base for the T8082 Fuel Saver thermostat.

TRADELINE models.

ORDER NUMBER	SWITCH POSITIONS		FEATURES	EACH
	SYSTEM	FAN		
Q682A1012	HEAT-OFF-COOL	AUTO-ON	Isolated Heating/Cooling circuits, with RC-RH terminals.	19.24
Q682A1020	HEAT-OFF-COOL	AUTO-ON	Auto fan in heat and cool for electric heat.	18.76
●Q682A1038	HEAT-OFF-COOL	AUTO-ON	Single R terminal, includes O & B terminals.	18.76

transformers

AT20A,AT40A



EACH TRANSFORMER CAN BE USED FOR DIRECT MOUNTING OR HORIZONTAL OR VERTICAL FOOT MOUNTING.

AT72 TRANSFORMERS



STEP-DOWN TRANSFORMER FOR USE IN 24 VOLT CONTROL SYSTEMS.

NEC Class 2 general purpose transformer, listed by Underwriters Laboratories Inc. Meets new NEMA ST2-1973 Standard—"Residential Controls—

AT72D 1196	208/50-60 ALL ON TOP OF MOUNTING PLATE. FOR PANEL MTG 9 IN PRIMARY AND SECONDARY LEADS EXTEND THRU MTG PLATE	\$ / 18.82
AT72D 1204	240/40-60 ALL ON TOP OF MOUNTING PLATE. FOR PANEL MTG 9 IN PRIMARY AND SECONDARY LEADS EXTEND THRU MTG PLATE	18.82
AT72D 1663	SUPER TRADELINE 120V PRIMARY MULTIMOUNT PLATE MOUNT FOOT MOUNT KNOCKOUT MOUNT	18.20
AT72D 1661	SUPER TRADELINE 208/240 PRIMARY MULTIMOUNT PLATE MOUNT FOOT MOUNT KNOCKOUT MOUNT	20.08
AT40A	40 VA TRANSFORMER 50/60 HZ 9 IN LEADS ON PRIMARY & SECONDARY WITH BURNOUT LINK. STRIPPED DOWN FOR PANEL MOUNTING	
AT40A 1121	TRADELINE 120/60 INCLUDES ADD-ON FEET FOR VERTICAL OR HORIZONTAL MOUNTING IN ENCLOSURE	17.04
AT40A 1138	TRADELINE 240 V WITH 2 SETS OF FOOT MOUNTINGS VERTICAL OR HORIZONTAL MOUNTING IN ENCLOSURES	17.04

T87F THERMOSTAT-THE ROUND

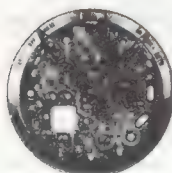


PROVIDES 24 TO 30 VOLT TEMPERATURE CONTROL FOR RESIDENTIAL HEATING, COOLING, OR HEATING-COOLING SYSTEMS.

Features dustproof spdt mercury switch, adjustable heat anticipator, and a 2- or 3-wire wallplate for heating only, cooling only

ORDER NUMBER	RANGE		FEATURES	EACH
	F	C		
T87F1826	60 to 90	16 to 32	Adjustable locking lever screws and locking cover.	\$ 30.68
● T87F1858 [®]	40 to 90	4 to 32	Replaces heating, cooling, and heating-cooling models (use Q539 for heating-cooling). Alternate series 20 terminal markings on 137421A wallplate.	25.68
T87F1867	50 to 90	10 to 32	With positive OFF.	28.08
T87F2105	40 to 90	4 to 32		27.48
T87F2337	50 to 80	10 to 27	Adjustable locking lever screws and locking cover.	31.70
T87F2360 ^b	45 to 75	7 to 24	Limited set point range	25.68
T87F2378	50 to 100	10 to 38	For use with W884 only	25.52
T87F2782	35 to 65	2 to 18	Heating only; limited set point range.	30.68
T87F2790	45 to 75	7 to 24	68 F marking on dial; limited set point range.	30.68
T87F2840	40 to 100	10 to 38	Cooling only.	26.42
T87F2873	40 to 90	4 to 32	Concealed 2 terminal heating only wallplate.	25.48

Q539 THERMOSTAT SUBBASES



PROVIDE MOUNTING AND MANUAL SWITCHING FOR T87F THERMOSTATS.

Includes cooling anticipator, letter-coded and color-coded screw terminals for electrical connections, and fingertip control of fan and system switch levers.

Honeywell

ORDER NUMBER	FAN (SPDT)	SWITCHING SYSTEM (DP3T OR DPDT)	USE WITH	REMARKS	EACH
Q539A1014	AUTO-ON	COOL-OFF-HEAT	T87F		19.88
Q539A1022	AUTO-ON	COOL-OFF-RESET-HEAT	T87F		
Q539A1121	AUTO-ON	COOL-OFF-HEAT	T87F	Cooling anticipator designed for use with gas air conditioners.	19.88
Q539A1147	AUTO-ON	COOL-OFF-HEAT	T87F	Independent Heat-Cool circuits	19.88
Q539C1020	AUTO-ON	COOL-OFF	T87F	Use on cooling only systems.	20.44
Q539D1003	AUTO-ON	COOL-OFF-HEAT	T87F	Includes Z terminal for fan control by external switch.	21.22
Q539D1011	HI-LO	COOL-OFF-HEAT	T87F		
Q539G1000		HEAT-OFF-FAN	T87F		
Q539H1009	AUTO-ON	NONE	T87F		19.56
Q539J1006	AUTO-ON	COOL-OFF-HEAT	T87F	Automatic fan on both heating and cooling. For heat pump and electric heating.	19.88



T834A-C THERMOSTATS

FOR LOW VOLTAGE CONTROL OF RESIDENTIAL HEATING, COOLING, OR HEATING-COOLING SYSTEMS.

ORDER NUMBER	APPLICATION	SCALE RANGE		HEAT ANTICIPATOR	POSITIVE OFF	EACH
		F	C			
T822C1090	For low voltage control of cooling systems.	55 to 95	13 to 35	Yes ^a	No	\$ 22.62
T822D1024	For low voltage control of heating systems.	55 to 95	13 to 35	Yes ^d	No	23.68
T822D1032		60 to 95	16 to 35	Yes ^b	Yes	25.68
T822D1685		35 to 65	2 to 18	Yes ^b	No	25.40
T822D1693		45 to 75 ^c	7 to 24	Yes ^b	No	25.40

O634A,D,F,G THERMOSTAT SUBBASES

USED WITH T819, T822C, T834A THERMOSTAT TO PROVIDE SYSTEM AND FAN SWITCHING.

Used in low voltage heating-cooling, or cooling only systems. Maximum Electrical Rating: System and Fan Switch—2 amp at 24 to 30V.

Honeywell



ORDER NUMBER	USE WITH	APPLICATION	SWITCHING		EACH
			FAN	SYSTEM	
O634A1047	T834A	For standard single transformer heating-cooling.	AUTO-ON	COOL-OFF-HEAT	\$ 19.86
O634D1028	T834A	For isolated heating and cooling power supplies.	AUTO-ON	COOL-OFF-HEAT	19.86
O634F1018	T819C, T822C	For cooling only thermostats.	LO-HI	COOL-OFF	21.16
O634G1033	T834A	For auto fan operation in heat and cool. (Electric heat or heat pump.)	AUTO-ON	COOL-OFF-HEAT	21.16

warm air controls

Honeywell

L4064B,D,J COMBINATION CONTROLS



FOR HIGH LIMIT CUT-OUT OF BURNER AND TEMPERATURE CONTROL OF FAN MOTOR ON ALL TYPES OF WARM AIR FURNACES.

L4064 models have 2 switches. One opens the limit circuit if temperature exceeds preset safety limit; it resets automatically. The

other gives ON-OFF fan control in response to plenum temperature. Refer to the ordering table for ranges and application of models. Push-in terminals provided to speed installation.

ORDER NUMBER	APPLICATION	INSERTION ELEMENT		EACH
		in.	mm	
L4064B1451	With manual fan switch which provides constant fan operation. With helical bimetal sensing element.	11-1/2 ^a	292.1	\$ 41.60
L4064B1469		5 ^a	127.0	41.60
L4064B2210		11 1/2	292.1	40.60
L4064B2228		5	127.0	40.60
L4064B2236		8	203.2	40.60

T872 MULTISTAGE THERMOSTATS



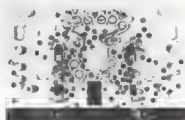
Honeywell

PROVIDE LOW VOLTAGE CONTROL OF MULTISTAGE HEATING, COOLING, AND HEATING-COOLING SYSTEMS INCLUDING HEAT PUMP SYSTEMS.

Requires a Q672 Subbase to provide wiring terminals, mounting base, and system and fan switching. Adjust-

ORDER NUMBER	NO. STAGES		EACH
	HEAT	COOL	
T872A1014	1	1	\$ 71.38
T872A1048	1	1	65.68
T872A1248	1	1	69.12
T872B1021	1	2	80.80
T872C1004	2	1	80.80
T872C1020	2	1	88.76
T872C1038	2	1	80.80
T872C1087	2	1	82.08
T872C1368	2	1	86.18
T872D1011	2	2	92.74
T872D1300	2	2	92.74
T872E1010	0	2	59.06
T872F1019	2	0	59.06

Q672 THERMOSTAT SUBBASES



PROVIDE WIRING TERMINALS, MOUNTING BASE, AND SYSTEM AND FAN SWITCHING FOR T872 MULTISTAGE THERMOSTATS.

Honeywell

ORDER NUMBER	INCLUDES	SWITCH POSITIONS		USE WITH	EACH
		SYSTEM	FAN		
Q672A1013	—	HEAT-AUTO-COOL	AUTO-ON	T872A-D	\$ 18.12
Q672A1039	Indicator light.	HEAT-AUTO-COOL	AUTO-ON	T872A-D	23.20
Q672B1012	Provision for fan relay operation from external fan switch.	HEAT-OFF-COOL	AUTO-ON	T872A-D	19.32
Q672B1038	—	HEAT-OFF-COOL	AUTO-ON	T872A-D	18.12
Q672B1061	Indicator light.	HEAT-OFF-COOL	AUTO-ON	T872A-D	25.24
Q672B1079	RC-RH jumper for AUTO fan operation in heat and cool for electric furnace.	HEAT-OFF-COOL	AUTO-ON	T872A,B,C,D only	18.12
Q672C1003	—	OFF-AUTO	AUTO-ON	T872A-F	16.18
Q672D1002	(For use when subbase switching is not required.)	None	None	T872A-F	12.08
Q672E1050	—	OFF-HEAT-AUTO-COOL	AUTO-ON	T872C,D	20.04
Q672F1026	EM. HT. light and jumper from W ₂ to X ₂ .	OFF-EM. HT. HEAT-AUTO-COOL	AUTO-ON	T872C,D	27.90
Q672F1075	EM. HT. light.	OFF-EM. HT. HEAT-AUTO-COOL	AUTO-ON	T872C,D	29.76
Q672F1216	Provision for AUTO fan operation in EM. HT.	EM. HT.-OFF- HEAT-AUTO-COOL	AUTO-ON	T872N1028 only.	31.06
Q672F1208	Provision for AUTO fan operation in EM. HT.	EM. HT.-OFF- HEAT-AUTO-COOL	AUTO-ON	T872G1224 only.	31.06

S688A SAIL SWITCH



operating.

COMPLETES CIRCUIT POWER TO AUXILIARY EQUIPMENT IN FORCED AIR SYSTEM ON AN INCREASE IN DUCT AIR VELOCITY.

Provides on-off control of electronic air cleaners, odor control systems, humidifiers, and other equipment energized when fan is

\$ 28.56

ORDER NUMBER	SAIL DIMENSIONS					
	INSE- TION		WIDTH		AREA	
	in.	mm	in.	mm	sq in.	mm ²
S688A1007	10	254	5	127	26.2	16,903

H49A,B HUMIDITY CONTROLLERS



H49A



H49B

MOUNTS IN RETURN AIR DUCT OF A FORCED AIR HEATING SYSTEM TO CONTROL A CENTRAL HUMIDIFIER.

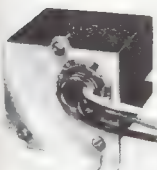
External knob on front of case provides control point adjustment. Spst snap-acting switch. Contacts break on humidity rise to set point; make on fall to

set point less differential.

ELECTRICAL RATING (amperes):

MODEL	120V AC		EACH
	FL	LR	
H49A	7.5	45.0	\$ 37.90
H49B	4.4	26.4	48.88

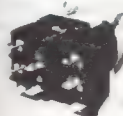
R8225A,B,C,D FAN RELAY



FOR 24 VOLT CIRCUIT CONTROL OF LINE VOLTAGE FAN MOTORS AND AUXILIARY CIRCUITS.

Used in heating, cooling or heating-cooling systems. Integral 1/2 inch conduit spud allows relay to be mounted on a standard junction box.

ORDER NUMBER	SWITCHING	CONFIGURATION AND COLOR CODING	EACH
R8225A1017	spdt		\$ 32.22
R8225A1041 ^b			41.12
R8225B1007	1 spdt N.O.		28.86
R8225C1005	1 spst N.O. 1 spst N.C.		30.24
R8225D1003	dpst 1 main N.O. 1 aux. N.O.		41.12



R4222,
R8222

GENERAL PURPOSE RELAYS FOR USE IN REFRIGERATION AND AIR CONDITIONING EQUIPMENT, APPLIANCES, VENDING MACHINES AND SIMILAR APPLICATIONS.

ORDER NUMBER	SWITCH- ING	COIL VOLT- AGE (50/60 Hz)	POLE 1-2-3	POLE 4-5-6	EACH
R4222B1058 ^a	Spdt	277	Power	None	\$ 23.04
R4222B1082 ^a		120	Power	None	20.52
R4222B1090 ^a		208/240	Power	None	22.40
R4222D1013 ^a	Dpdt	120	Power	Power	27.76
R4222D1021 ^a		208/240	Power	Power	28.92
R4222D1070 ^a		277	Power	Power	29.64
R8222B1067 ^a	Spdt	24	Power	None	18.72
R8222D1014 ^a	Dpdt	24	Power	Power	26.93

FAN CENTERS

R8239A,B

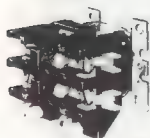


PROVIDE LOW VOLTAGE CONTROL OF LINE VOLTAGE FAN MOTORS AND AUXILIARY CIRCUITS IN HEATING, COOLING, OR HEATING-COOLING CIRCUITS.

Enclosed relay with 38 VA transformer mounts on standard 4 x 4 inch junction box.

R8239A	FAN CENTER 40VA TRANSFORMER 120V PRIMARY, 27V SECONDARY WITH PLUG-IN SPDT R8222B RELAY AND METAL COVER.	\$ 49.34
R8239A 1011	208/240V PRIMARY SPDT RELAY W/ METAL COVER.	
R8239A 1052	TRADELINE 120V SPDT WITH 1 N.O. POWER AND 1 N.C. POWER CONTACTS	46.08
R8239B	FAN CENTER 40VA TRANSFORMER 120V PRIMARY, 27V SECONDARY WITH PLUG-IN SPDT R8222B RELAY AND METAL COVER.	
R8239B 1019	208/240V PRIMARY TRANSFORMER	62.00
R8239B 1043	SUPER TRADELINE. DPDT RELAY WITH 2 N.O. AND 2 N.C. POWER CONTACTS	56.48

relays and contactors



ELECTROMAGNETICALLY OPERATED CONTACTORS PROVIDE SWITCHING FOR A CROSS-THE-LINE STARTING OF INDUCTION MOTORS.

Used in hermetic refrigeration compressors or for switching electric resistance heaters.

ORDER NUMBER	COIL VOLTAGE (50/60 Hz)	RATING IN AMPERES	EACH
R4243B1038	120	30	\$ 41.16
R4243B1046	208/240	30	41.50
R4243B1053	277	30	42.20
R8242B1006	24	20	32.68
R8243B1005	24	30	35.28
R8243B1013	24	30	39.80



R4214, R8214
3 Pole



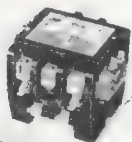
R4214, R8214
4 Pole

TWO-, THREE-, OR FOUR-POLE, 30, 40, OR 50 AMP, DEFINITE PURPOSE CONTACTORS.

For switching motors and heating loads in heating and cooling control applications.

ORDER NUMBER	POLES	COIL VOLTAGE (50/60 Hz)	NOMINAL CONTACT RATING (AMP)	EACH
R4210G1036	3	120	25	44.46
R4210G1226	3	208/240	25	53.24
R4212G1323	3	120	30	52.58
R4212G1331	3	208/240	30	53.02
R4214G1347	3	120	40	63.24
R4214G1354	3	208/240	40	63.24
R4214P1008	4	120	40	86.30
R4214P1016	4	208/240	40	83.34
R8212G1209	3	24	30	54.34
R8212G1217	3	Less Coil	30	39.36
R8214G1140	3	24	40	62.10
R8214G1157	3	Less Coil	40	51.86

Honeywell



MAGNETICALLY OPERATED, USED FOR SWITCHING MOTORS UP TO 75 AMP FL OR 90 AMP RESISTIVE ON REFRIGERATION AND AIR CONDITIONING EQUIPMENT OR NONINDUCTIVE ELECTRIC HEAT LOADS.

ORDER NUMBER	COIL VOLTAGE (50/60 Hz)	NO. POLES	NOMINAL CONTACT RATING (amp)		EACH
			FULL LOAD	RESISTIVE	
R8234A1008	24	2	60	75	\$ 133.58
R8234B1006	24	3	60	75	142.08
R8234B1022	24	3	60	75	144.42
R8234B1030	Less Coil	3	60	75	128.68
R8236A1006	24	2	75	90	202.36
R8236B1004	24	3	75	90	217.04
R8236B1020	24	3	75	90	235.46
R8236B1038	Less Coil	3	75	90	206.60

electric heating controls

Honeywell

R841C



R841D



R841E

CONTROLS ELECTRIC HEATING EQUIPMENT SUCH AS BASEBOARD, CEILING CABLE, AND DUCT HEATERS. USE WITH A 2-WIRE, 24V THERMOSTAT.

R841 relay operates with each cycle of the thermostat (4 to 6 cycles per hour). Each relay switch

can control up to a 5,000 watt load. Contacts make and break in about 75 seconds. Ambient Temperature

ORDER NUMBER	APPLICATION/ DESCRIPTION	VOLTAGE AND FREQUENCY	NO. SWITCHES	EACH
R841C1003	Controls one load.	120V, 60 Hz	1	\$ 56.16
R841C1011	With integral transformer.	208V, 60 Hz	1	56.16
R841C1037		277V, 60 Hz	1	56.16
R841C1045		240V, 60 Hz	1	56.16
R841D1010	Controls one load. Without integral transformer.	24V, 60 Hz	1	47.72
R841E1043	Used with 1 thermostat to control 2 loads	120V, 50/60 Hz	2	105.26
R841E1050	simultaneously, or 2 thermostats to control 2 independent loads. With integral transformer.	208V, 50/60 Hz	2	105.26
R841E1068		240V, 50/60 Hz	2	105.26
R841E1076		277V, 50/60 Hz	2	105.26

R8246A ELECTRIC HEAT CONTACTOR

R8229A ELECTRIC HEAT RELAY

FOR USE IN ELECTRIC HEATING APPLIANCES.

Quiet-operating contactor and relay designed for conventional on-off control of heat elements plus fan in an electric furnace. R8246A and R8229A replace over 50 Honeywell and competitive electric heat primaries, including

the Honeywell R8330 Electric Furnace Sequencer. For use on furnaces with line voltage or pilot duty limits. Refer to ordering table, page 5, for applications of R8246A Contactor and R8229A Electric Heat Relay. Underwriters Laboratories Inc. and CSA component recognized.

R8229A



R8246A

R8229A1005 Electric Heat Relay	Switches up to two 5 kW electric heat elements, plus 6.4 amp fan motor at 240V ac. Several can be used together to control more than 2 heating elements. Replace sequenced controls which are no longer required by industry standards.	\$ 35.92
R8229A1021 Electric Heat Relay		43.82
R8246A1004 Contactor	Switches up to four 5 kW electric heat elements, plus 7.0 amp fan motor at 240V ac. Several can be used together to control more than 4 heating elements. Replace sequenced controls which are no longer required by industry standards.	49.36
R8246A1038 Contactor		62.14

Honeywell

Y495 ODOR CONTROL SYSTEM



W873
(Y495)



W874
(Y495)

CONTROLS UNPLEASANT ODORS BY EVAPORATING ODOR COUNTERACTANT INTO CENTRAL AIR HANDLING SYSTEM.

Package includes W873 Dispenser which mounts directly on the return air duct, and a W874 Control Panel which can be mounted at any convenient location. Two-speed fan motor for high or normal counteractant evaporation rate. 24V power source must be provided for the

Odor Counteractant Refills: Four ounce [113 gram] pop-top can fits directly into dispenser.

FRAGRANCE	ORDER NUMBER	EACH
Cinnamon and Spice	137866A	\$ 16.08
Orange Blossom	137866B	16.08
Mint	137866C	16.08
Mountain Air (neutral)	137866D	16.08

ORDER NUMBER	PACKAGE INCLUDES	RECOMMENDED RETURN AIR (EVAPORATION) TEMPERATURE	EACH
Y495A1001	W873A1001 Dispenser; W874A1009 Control Panel	60 to 90 F (15.5 to 32 C)	\$ 132.94

V800 FAMILY HIGH CAPACITY COMBINATION GAS CONTROLS



PROVIDE COMPLETE CONTROL OF HIGH CAPACITY GAS-FIRED CENTRAL FURNACES AND HEATING APPLIANCES.

These high capacity models feature the same versatility and ease of installation as standard capacity models.

The gas cock knob, wiring connections, pressure regulator, pilot gas adjustments, and the thermocouple connection are all on top of the control for easy access.

Honeywell

ORDER NUMBER	APPLICATION	DESCRIPTION	INLET-OUTLET SIZE (inches)	CAPACITY ^o		PRESS. REG. SETTING		KIND OF GAS	EACH
				cfh	m ³ /hr	in. wc	kPa		
V800A1070 ^{a,c}	Automatic 24 volt control.	Color-coded blue to identify 24V operation. Terminal block has 3 combination screw and 1/4 in. [6.4 mm] quick-connect terminals. Current draw: 0.04 amp.	1/2 x 3/4	250	7.0	3.5	0.87	Nat	\$ 101.72
V800A1088 ^{a,c}			3/4 x 3/4	335	9.5	3.5	0.87	Nat.	112.70
V800B1038 ^a			1/2 x 3/4	250	7.0	No Reg.	No Reg.	LP	89.88
V800B1046 ^a			3/4 x 3/4	335	9.5	No Reg.	No Reg.	LP	102.08
V800C1052 ^a			3/4 x 3/4	335	9.5	0.9 Step ^d , 3.5 full rate	0.22 Step ^d , 3.5 full rate	Nat.	121.38
V801A1003 ^b			1/2 x 3/8	110	3.1	3.5	0.87	Nat.	104.20
V801B1002 ^b			1/2 x 3/8	110	3.1	No Reg.	No Reg.	LP	93.06

T822



SERIES 80 THERMOSTATS FOR 24 VOLT HEATING OR COOLING APPLICATIONS OR MILLIVOLT HEATING SYSTEMS.

Refer to the ordering table for application. Coiled bi-metal operates quiet, dust-free mercury switch. These thermostats mount directly

on a wall or on a standard vertical outlet box. Setting lever and thermometer scale on thermostat face.

ORDER NUMBER	APPLICATION	SCALE RANGE		EACH
		F	C	
T822C1090	For low voltage control of cooling systems.	55 to 95	13 to 35	\$ 22.62
T822D1024	For low voltage control of heating systems.	55 to 95	13 to 35	23.68
T822D1032		60 to 95	16 to 35	25.68
T822D1685		35 to 65	2 to 18	25.40
T822D1693		45 to 75	7 to 24	25.40

V8343A,B ELECTRIC ZONE VALVE

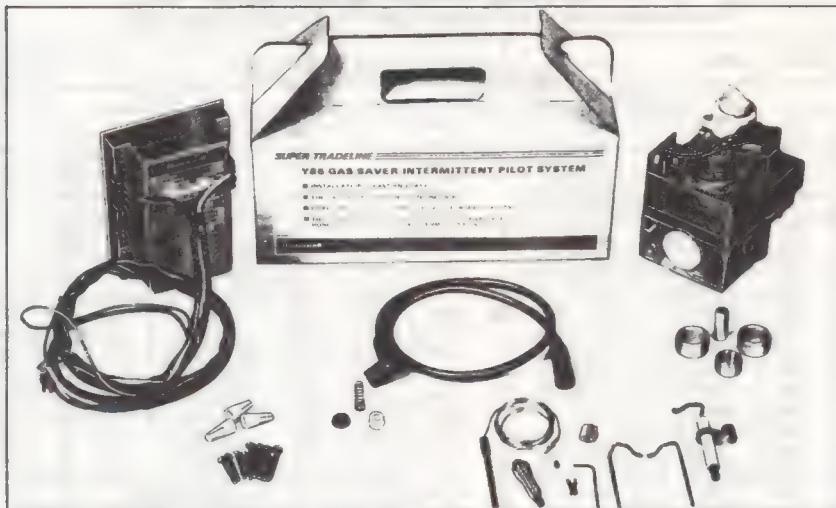


CONTROLS A SINGLE ZONE IN A CENTRAL HYDRONIC HOT WATER HEATING SYSTEM.

Honeywell

ORDER NUMBER	APPLICATION	PIPE CONNECTION (in.)	EACH
V8343A1000	Zone valve for hot water application. With normally open auxiliary end switch for circulator pump relay.	1/2 sweat	\$ 66.76
V8343A1018		3/4 sweat	66.76
V8343B1008	Zone valve for hot water application. Without auxiliary end switch.	1/2 sweat	66.76
V8343B1016		3/4 sweat	66.76

Y86 RETROFIT GAS BURNER IGNITION SYSTEM



PROVIDES INTERMITTENT IGNITION FOR 25 VOLT CENTRAL FURNACES, BOILERS, AND CONTROLLED HEATING EQUIPMENT.

Converts existing continuous pilot burner to intermittent pilot burner. Used with natural or LP gas.

ORDER NUMBER	VALVE SIZE (IN)	TYPE OF GAS	REDUCER BUSHINGS	INCLUDES	EACH
Y86A1005	1/2 x 3/4	Nat. ^o LP conversion kit included	One 3/4 x 1/2 in.; one 1/2 x 3/8 in.	Self-adhesive backplate for easy mounting of S86 Control Module, side tapping on VR844A Combination Gas Control, LP conversion kit.	\$ 205.10
Y86A1013	3/4 x 3/4	Nat. ^o LP conversion kit included	Two 3/4 x 1/2 in.; one 1/2 x 3/8 in.		213.36



GAS PRESSURE TEST KIT \$ 71.00

Accurately set manifold pressure for Natural or L.P. Gas.
Easier to use than a monometer and more compact too!
Attractively priced

- ▶ Special sensitive diaphragm gauge calibrated in inches of water column.
- ▶ Special tube nipple, for easy connection to manifold.
- ▶ Heavy duty carrying case
- ▶ Scale: 0-20 inches water column

A.C. MOTOR START CAPACITORS

For ordering purposes, order by type, volts, and Mfd; ie, S330 21-25 Plastic case, 330 VOLTS, 21-25 Mfd.

Type	Volts	Mfd	Size	EACH	Type	Volts	Mfd	Size	EACH
125 VOLTS					250 VOLTS				
S	125	21-25	1 7/16 x 2 3/4	2.46	S	250	21-25	1 7/16 x 3 3/8	4.70
S	125	25-30	1 7/16 x 2 3/4	2.50	S	250	25-30	1 7/16 x 3 3/8	4.92
S	125	30-36	1 7/16 x 2 3/4	2.50	S	250	30-36	1 7/16 x 3 3/8	5.05
S	125	36-43	1 7/16 x 2 3/4	2.52	S	250	36-43	1 7/16 x 3 3/8	5.56
S	125	43-53	1 7/16 x 2 3/4	2.66	S	250	43-56	1 7/16 x 3 3/8	6.59
S	125	53-64	1 7/16 x 2 3/4	2.72	S	250	56-72	1 13/16 x 3 3/8	7.04
S	125	64-77	1 7/16 x 2 3/4	2.78	S	250	72-88	1 13/16 x 3 3/8	7.40
S	125	72-88	1 7/16 x 2 3/4	2.78	S	250	88-108	1 13/16 x 4 3/8	7.96
S	125	88-108	1 7/16 x 2 3/4	2.81	S	250	108-130	1 13/16 x 4 3/8	9.02
S	125	108-130	1 7/16 x 2 3/4	2.94	S	250	124-149	2 1/16 x 4 3/8	10.14
S	125	124-149	1 7/16 x 2 3/4	3.20	S	250	130-156	2 1/16 x 4 3/8	10.24
S	125	130-156	1 7/16 x 2 3/4	3.20	S	250	145-175	2 1/16 x 4 3/8	10.80
S	125	145-175	1 7/16 x 2 3/4	3.42	S	250	161-193	2 9/16 x 4 3/8	12.52
S	125	161-193	1 7/16 x 3 3/8	3.46	S	250	189-227	2 9/16 x 4 3/8	13.30
S	125	189-227	1 7/16 x 3 3/8	4.16	S	250	216-259	2 9/16 x 4 3/8	14.46
S	125	200-240	1 7/16 x 3 3/8	4.28	S	250	233-280	2 9/16 x 4 3/8	15.60
S	125	216-259	1 7/16 x 3 3/8	4.32	S	250	280-333	2 9/16 x 4 3/8	15.60
S	125	233-292	1 13/16 x 3 3/8	4.51	330 VOLTS				
S	125	270-324	1 13/16 x 3 3/8	4.98	S	330	21-25	1 13/16 x 3 3/8	4.86
S	125	300-360	1 13/16 x 3 3/8	5.40	S	330	25-30	1 13/16 x 3 3/8	5.30
S	125	324-388	1 13/16 x 3 3/8	5.66	S	330	30-36	1 13/16 x 3 3/8	5.66
S	125	340-408	1 13/16 x 3 3/8	5.70	S	330	36-43	1 13/16 x 3 3/8	6.18
S	125	378-440	1 13/16 x 3 3/8	5.92	S	330	43-53	1 13/16 x 3 3/8	6.88
S	125	400-480	1 13/16 x 3 3/8	6.36	S	330	53-64	1 13/16 x 4 3/8	7.44
S	125	430-516	1 13/16 x 4 3/8	6.78	S	330	72-88	2 1/16 x 4 3/8	9.18
S	125	460-552	1 13/16 x 4 3/8	7.96	S	330	88-108	2 1/16 x 4 3/8	10.62
S	125	540-648	2 1/16 x 4 3/8	9.06	S	330	108-130	2 1/16 x 4 3/8	12.86
S	125	590-708	2 1/16 x 4 3/8	9.76	S	330	124-149	2 9/16 x 4 3/8	13.56
S	125	708-850	2 9/16 x 4 3/8	11.32	S	330	135-162	2 9/16 x 4 3/8	14.74
					S	330	145-175	2 9/16 x 4 3/8	15.42
					S	330	161-193	2 9/16 x 4 3/8	16.64
					S	330	189-227	2 9/16 x 4 3/8	17.88

Volts listed are maximum, i.e. 250 VOLTS replaces all voltages up to and including 250 VOLTS etc.
NOTE: All 330 volt capacitors are supplied with resistor assembled to unit.

Separate Bleeder Resistors

Part No. 42-1532B .50

END CAPS ON MOTOR MOUNTING

Part No.	For Case Dia.	EACH
SAC	1 7/16	.48
SBC	1 13/16	.60
SCC	2 1/16	.70
SDC	2 9/16	.92

END CAPS OFF MOTOR MOUNTING

Part No.	For Case Dia.	EACH
SACF	1 7/16	.48
SBCF	1 13/16	.60
SCCF	2 1/16	.70
SDCF	2 9/16	.92

MOUNTING BRACKETS

Part No.	For Case Length	A	B	C	D	EACH
SMB-26	2 3/4	3 7/16	1 7/16	7/8	1 7/64	1.36
SMB-33	3 3/8	4 1/16	2 1/16	1 1/2	1 37/64	1.32
SMB-43	4 3/8	5 1/16	2 5/8	1 25/32	2 3/64	1.60

O = Oval
R = Rectangular
F = Fused
G = Ground Lug
R = Resistor

A.C. MOTOR RUN CAPACITORS

For ordering purposes, order by type, volts, and Mfd; ie, 03725 = oval, 370 VOLTS, 25 Mfd,

Type	Volts	Mfd	Size	EACH	Type	Volts	Mfd	Size	
370 VOLTS					440 VOLTS				
O	370	2	1 5/16 x 2 5/32 x 2 3/8	4.98	O	440	2	1 5/16 x 2 5/32 x 2 1/2	5.48
O	370	3	1 5/16 x 2 5/32 x 2 1/2	5.38	O	440	3	1 5/16 x 2 5/32 x 3	6.30
O	370	4	1 5/16 x 2 5/32 x 2 3/4	5.88	O	440	4	1 5/16 x 2 5/32 x 3 1/2	6.94
O	370	5	1 5/16 x 2 5/32 x 3 1/4	6.24	O	440	5	1 5/16 x 2 5/32 x 4 1/4	8.06
O	370	6	1 5/16 x 2 5/32 x 3 3/4	6.74	O	440	6	1 5/16 x 2 5/32 x 4 3/4	8.86
O	370	7.5	1 5/16 x 2 5/32 x 4 1/4	7.44	O	440	7.5	1 5/16 x 2 5/32 x 5 1/8	11.00
O	370	10	1 5/16 x 2 5/32 x 5 1/2	9.88	O	440	10	1 29/32 x 2 29/32 x 4	11.46
O	370	12.5	1 29/32 x 2 29/32 x 3 3/4	11.20	O	440	15	1 29/32 x 2 29/32 x 5 1/4	15.52
O	370	15	1 29/32 x 2 29/32 x 4 1/4	12.32	O	440	17.5	1 29/32 x 2 29/32 x 6	16.76
O	370	17.5	1 29/32 x 2 29/32 x 4 3/4	13.85	O	440	20	1 29/32 x 2 29/32 x 6 3/4	18.49
O	370	20	1 29/32 x 2 29/32 x 5 1/4	15.52	O	440	25	1 31/32 x 3 21/32 x 6 3/4	23.14
O	370	25	1 29/32 x 2 29/32 x 6 1/4	18.48	O	440	30	1 31/32 x 3 21/32 x 8	26.08
O	370	30	1 29/32 x 2 29/32 x 7 1/4	21.00	O	440	35	1 31/32 x 3 21/32 x 9 1/2	30.46
O	370	35	1 31/32 x 3 21/32 x 8 1/4	21.88	R	440	35	2 27/32 x 4 9/16 x 6 1/4	36.25
O	370	40	1 31/32 x 3 21/32 x 9	27.32	O	440	40	1 31/32 x 3 21/32 x 9 1/2	33.86
O	370	45	1 31/32 x 3 21/32 x 9 1/2	29.24	O	440	45	1 31/32 x 3 21/32 x 9 1/2	46.04
O	370	50	1 31/32 x 3 21/32 x 9 1/2	32.20	R	440	40	2 27/32 x 4 9/16 x 6 8/4	41.66
O	370	15/3	1 29/32 x 2 29/32 x 5 1/4	15.74	R	440	45	2 27/32 x 4 9/16 x 7 1/4	46.04
O	370	15/4	1 29/32 x 2 29/32 x 5 1/2	16.16	R	440	50	2 27/32 x 4 9/16 x 8 1/2	41.66
O	370	15/5	1 29/32 x 2 29/32 x 5 3/4	16.90	R	440	55	2 27/32 x 4 9/16 x 8 1/2	49.05
O	370	15/10	1 29/32 x 2 29/32 x 6 3/4	19.90	R	440	60	2 27/32 x 4 9/16 x 8 1/2	53.72
O	370	17.5/4	1 29/32 x 2 29/32 x 6 1/4	18.08	O	440	15/4	1 31/32 x 3 21/32 x 6 1/2	16.16
O	370	17.5/5	1 29/32 x 2 29/32 x 6 1/2	18.90	O	440	17.5/4	1 31/32 x 3 21/32 x 6 3/4	18.08
O	370	17.5/17.5F	1 31/32 x 3 21/32 x 8 1/2	18.90	O	440	17.5/17.5F	1 31/32 x 3 21/32 x 9 1/2	31.48
O	370	20/5	1 29/32 x 2 29/32 x 7	20.73	O	440	20/15FR	1 31/32 x 3 21/32 x 9 1/2	37.18
O	370	25/4	1 31/32 x 3 21/32 x 7 3/4	22.40					
O	370	25/5	1 31/32 x 3 21/32 x 8	24.35					
C	370	25/10FGR	1 31/32 x 3 21/32 x 8 1/2						
O	370	30/3	1 31/32 x 3 21/32 x 8 1/4	27.20					
O	370	30/5	1 31/32 x 3 21/32 x 8 1/2	27.30					
O	370	35/3	1 31/32 x 3 21/32 x 8 3/4	27.36					
O	370	35/4	1 31/32 x 3 21/32 x 9	28.10					
O	370	35/5	1 31/32 x 3 21/32 x 9 1/4						
O	370	40/5	1 31/32 x 3 21/32 x 9 1/2						

WRAP AROUND MOUNTING BRACKET

Part No.	Base Size	Bracket	Mounting		Dimensions	EACH
		A	B	C		
81-0002-A	1 5/16 x 2 5/32	2.937	2.562	3/4		.60
81-0002-B	1 29/32 x 2 29/32	3.812	3.312	3/4		.60
81-0002-C	1 31/32 x 3 21/32	4.562	4.062	3/4		.60
81-0002-D	2 27/32 x 4 9/16	5.734	5.019	1 3/4		.90

NEOPRENE INSULATING BOOT

\$.60

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.



TIME DELAY CONTROLS

SOLID STATE

WHAT IS A TIME DELAY CONTROL?

A single compact and non-positional timer designed for use with various types of air conditioning, heating and refrigeration equipment. Offering added short term (30 Sec. thru 300 Sec.) time periods, cycling when (Delay on Make) the circuit is energized or (Delay on Break) the circuit is de-energized.



*Controls includes resistor package for the following timings 30, 60, 120, 180, 300 seconds

- Economy plus versatile tilt.
- Each model offers 24-240 Volt usage, with pre-set timings.

NOTE:

ALL DELAY ON MAKE SERIES OUTPUT - Maximum Load Ratings: Case Temperature @ 77°F (25°C): 1.3 AMP. derated to 75 AMP. @ 160°F (71°C). 20 AMP. one-cycle (60Hz) surge. Operating Temperature: -40°F to 160°F (-20°F to 71°C)



NOTE:

ALL DELAY ON BREAK SERIES OUTPUT - Inductive Load Maximum Continuous Current: (50-60 Hz @ 160°F (70°C) Case Temp. 1.0 AMP. RMS Maximum Surge Current (One Cycle 50-60Hz @ 77°F. (25°C) 30 AMP. RMS

DELAY ON MAKE solid state 3 SERIES

TIME DELAY ON MAKE: designed for general applications such as sequential functions, or start-up delay safety circuits and capable of powering inductive loads, such as relays, solenoids, motors, valves, etc; or resistive loads, such as incandescent lamps, heaters, electronic systems, etc.

VARIABLE VOLTAGE WITH SELECTIVE TIMINGS.

Total replacement with one control for applications on 24 through 240 volts AC or DC.

PART NO.	VARIABLE VOLTAGE A.C./D.C./50/60Hz	TIMING	EACH
C 111	24-240	*EXTERNAL	\$ 30.50

SET VOLTAGE WITH SELECTIVE TIMINGS

PART NO.	VOLTAGE A.C./50/60Hz	TIMING
IC 101	24	*EXTERNAL
IC 102	120	*EXTERNAL
IC 103	240	*EXTERNAL

VARIABLE VOLTAGE WITH SET TIMINGS

PART NO.	VARIABLE VOLTAGE A.C./D.C./50/60Hz	TIMING
IC 116	24-240	30 SEC.
IC 117	24-240	60 SEC.
IC 118	24-240	120 SEC.
IC 119	24-240	180 SEC.
IC 120	24-240	300 SEC.

DELAY ON BREAK solid state 2 SERIES

TIME DELAY ON BREAK: designed to prevent SHORT CYCLING of compressors, motors and various industrial equipment preventing overheating and possible burn-out. Any interruption in electrical circuit, such as power off or switch open, will cause load to be de-energized. The load will be "OFF" for specified time of time delay.

Delays the controlled device from restarting or reactivating until a predetermined time has elapsed after controlling switch is opened, or power lost.

SET VOLTAGE AND SET TIMINGS WITH LOW VOLTAGE MONITOR

GEM NO.	TIMING	VOLTAGE	Each
IC 141	30 SEC.	24 VAC	28.50
IC 142	60 SEC.	24 VAC	
IC 143	120 SEC.	24 VAC	
IC 144	180 SEC.	24 VAC	
IC 145	300 SEC.	24 VAC	

Provides both short cycle and brown out (low voltage) protection. Each control has a resistor peck for external setting of low voltage lockout of 20 VAC, 21 VAC, 22 VAC.

Color coded for easy identification. With no resistor installed, low voltage lock out feature does not operate. The low voltage monitor prevents restart until pre-determined voltage is attained.

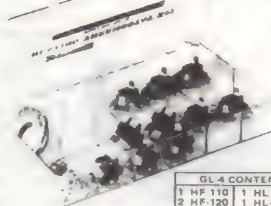
SET VOLTAGE WITH SET TIMINGS

GEM NO.	TIMING	VOLTAGE	Each
IC 151	30 SEC.	24 VAC	27.50
IC 152	60 SEC.	24 VAC	
IC 153	120 SEC.	24 VAC	
IC 154	180 SEC.	24 VAC	
IC 155	300 SEC.	24 VAC	

The most economical controls in this series are pre-set timings and voltages and do not include the (low voltage) protection.

HEATING THERMOSTATS

FOR BLOWER OR FAN CYCLING AND
HI-LIMIT CONTROL



GL-4 CONTENTS	
1 HF-110	1 HL-140
2 HF-120	1 HL-180
2 HF-130	1 HL-200
1 HF-140	6 FLANGES
1 HF-150	12 SPACERS
	10 ADAPTERS

GL-4 Kit \$ 66.40

10 thermostats in 8 temperature ranges offering specifications needed for today's most popular service requirements.

Includes adapter flanges, terminal adapters, and shim washer. For one stop repair.



FRONT VIEW



REVERSE VIEW

	PART NO.	TEMPERATURE SETTINGS		SWITCH ACTION	Each
		CUT-IN (°F)	CUT-OUT (°F)		
FAN CONTROLS	HF-90	90	80	Close on Rise	\$ 8.70
	HF-110	110	90	Close on Rise	
	HF-120	120	100	Close on Rise	
	HF-130	130	110	Close on Rise	
	HF-140	140	120	Close on Rise	
	HF-150	150	130	Close on Rise	
	HF-160	160	140	Close on Rise	
	HF-170	170	150	Close on Rise	
	HF-180	180	160	Close on Rise	
	HF-190	190	170	Close on Rise	
	HF-200	200	180	Close on Rise	
	HF-250	250	220	Close on Rise	
	HF-350	350	330	Close on Rise	
LIMIT CONTROLS	PART NO.	TEMPERATURE SETTINGS		SWITCH ACTION	8.70
		CUT-IN (°F)	CUT-OUT (°F)		
	HL-140	100	140	Open on Rise	
	HL-150	110	150	Open on Rise	
	HL-160	120	160	Open on Rise	
	HL-170	130	170	Open on Rise	
	HL-180	140	180	Open on Rise	
	HL-190	150	190	Open on Rise	
	HL-200	160	200	Open on Rise	
	HL-210	170	210	Open on Rise	
	HL-230	190	230	Open on Rise	
	HL-250	210	250	Open on Rise	
	HL-300	250	300	Open on Rise	
	HL-325	275	325	Open on Rise	
LIMIT CONTROLS MANUAL RESET	PART NO.	TEMPERATURE SETTINGS		SWITCH ACTION	7.80
		CUT-IN (°F)	CUT-OUT (°F)		
	HM-160	MANUAL	160	Open on Rise	
	HM-170	RESET	170	Open on Rise	
	HM-180		180	Open on Rise	
	HM-190		190	Open on Rise	
	HM-200		200	Open on Rise	

ELECTRIC WATER HEATER THERMOSTATS

A COMPLETE LINE

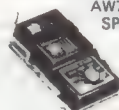
The GEMLINE AW Series of adjustable thermostats are designed for replacement on all storage type electric water heaters. Available in single or double throw and double throw with high limit combination. The thermostats are adjustable from 120° to 170°F.



AW7245
COMBINATION
DT-2 Circuits



AW7135
DT-2 Circuits



AW7025
SPST



AW1610
HI LIMIT

APPLIANCE THERMOSTATS "L" and "LD" RATED SERIES

A multi-purpose series of popular S.P.S.T. and S.P.D.T. temperature ratings as used in Home Laundry and Dryer applications. This series may also be used for Fan and Limit when applicable.

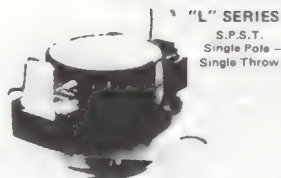
All "L" and "LD" series thermostats are supplied with contacts in the closed position. Contacts will open when temperature reaches heat rating indicated on thermostat. Contacts will close according to the differentials listed on chart.

EXAMPLES: L-120-1 open 120° - close 110° - 10° differential
L-175-2 open 175° - close 155° - 20° differential

PART No S.P.S.T.		
L 120-1	L 155-2	L 225-4
L 125-1	L 165-2	L 240-4
L 130-1	L 175-2	L 250-5
L 135-1	L 175-4	L 260-5
L 140-1	L 180-1	L 275-5
L 145-1	L 190-4	L 300-5
L 150-1	L 200-4	L 320-5
	L 210-4	L 340-5

PART No S.P.D.T.	
LD 110-1	LD 170-2
LD 120-1	LD 200-4
LD 130-1	LD 225-4
*LD-135-1	LD 245-5
*LD 140-1	LD 270-5
LD 145-1	LD 290-6
LD 155-2	

* New Items



"LD" SERIES

S.P.D.T.
Single Pole -
Double Throw



DRYER THERMOSTAT KITS

GLD-1 KIT \$ 78.30

This kit contains seven (7) most used single-pole - double-throw thermostats. These temperature settings range from 130°F. thru 245°F.

GL-5 KIT \$ 64.30

This kit consists of nine (9) most used operating thermostats with settings at 120°F. thru 175°F. Differentials are of 10° and 20°.

GL-6 KIT \$ 64.30

Designed for use in hi-limit or safety applications, this kit of nine (9) thermostats covers temperature settings for 175°F. to 300°F. Differentials of 40° and 50°

GLD-1 (Includes 1 ea.)

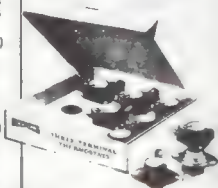
LD 130-1 LD 200-4
LD 145-1 LD 225-4
LD 155-2 LD 245-5
LD 170-2

GL-5 (Includes 1 ea.)

L 120-1 L 145-1
L 125-1 L 155-2
L 130-1 L 165-2
L 135-1 L 175-2
L 140-1

GL-6 (Includes 1 ea.)

L 175-4 L 250-5
L 200-4 L 260-5
L 210-4 L 275-5
L 225-4 L 300-5
L 240-4



COMMERCIAL PILOT LIGHTER

\$ 15.80



The long lasting heavy duty telescoping shaft extends to a full 22 inches and collapses to fit conveniently in your pocket.



Includes an industrial strength magnet for retrieving dropped or lost parts.



One fill of lighter fluid will last for hundreds of lights.

Replacement
striker and
wick holder
TB-071A

\$.80



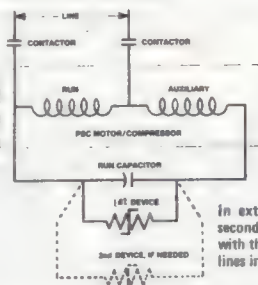
HARD START PACK

SOLID STATE UL recognized.

GEMLINE - THE PROVEN SOLID STATE HARD START PACK

For permanent split capacitor (P.S.C.) systems in air conditioners, commercial refrigeration, heat pumps and motors using a self-equalizing system.

Note: Not for use on non-equalized systems or with any system designed for relay and start capacitor hookup.



In extreme cases of hard starting, a second unit may be wired in parallel with the first. As indicated by dotted lines in diagram.



TWO MODELS

No. HS-110 \$ 15.50

For the first time, an ECONOMY MODEL to meet the needs of light duty units thru 1 H.P. 110V 50/60Hz.

No. HS-520 \$ 15.50

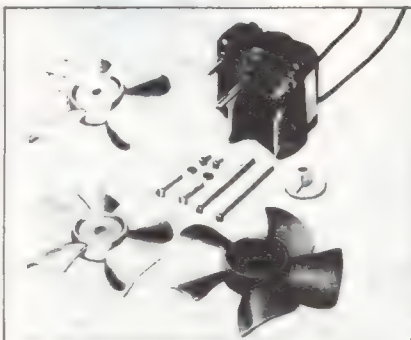
A FULL RANGE MODEL adapts for all light to heavy duty units thru 5 H.P. 110V -208-220V, 50/60Hz.

Both models require a five minute cool-down period between starts.

UTILITY AND PUMP MOTORS

Now 3 universal motors for commercial and domestic use. For range vents, exhaust vents, freezers, refrigerators, walk in boxes, coolers, evaporators, etc.

Designed for both clockwise and counter clockwise operation. Can be mounted both horizontally and vertically.



SINGLE SPEED

EM 670 120V 50/60 Hz \$ 17.70

EM 672 240V 50/60 HZ 18.80

3000 RPM - Impedance Protected

Packaged with:

1 - 3 1/2" Blade

1 - 4" Blade

1 - 5 1/2" Blade

1 - MB-21 Mounting Bracket



MB-21



TWO SPEED

EM 673 120V 50/60 Hz \$ 21.00

3000 - 1550 RPM - Impedance Protected

Packaged with:

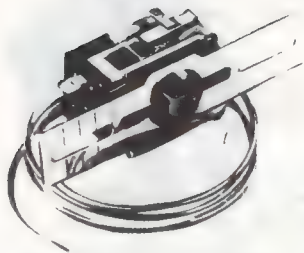
1 - 4" Blade

1 - 5 1/2" Blade

1 - MB-21 Mounting Bracket

COLD CONTROLS UNIVERSAL REPLACEMENT

UL & CSA LISTED

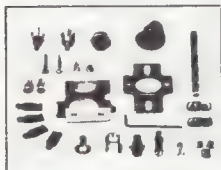


GC-500 SERIES

REFRIGERATOR CONSTANT DIFFERENTIAL

Constant differential controls maintain the same difference between on temperature and off temperature while control knob is moved from one setting to another. A control with 10°F differential will maintain this difference from coldest to warmest setting.

The GC-500 series cold control offer temperature ranges and capillary lengths for replacement in conventional "U" type evaporators through "frostless" models of refrigerators.



SPECIFICATIONS

CALIBRATIONS °F					GEM CONTROL PART NO.	EACH
NORMAL OFF	NORMAL ON	WARM ON	COLD OFF	CAP LENGTH		
40°	160°	320°	-230°	24"	GC 507	29.80
-10°	130°	290°	-190°	24"	GC 509	28.50
20°	300°	400°	-160°	24"	GC 508	30.20
50°	290°	420°	-160°	48"	GC 504	30.20
90°	200°	380°	-160°	78"	GC-502	28.50
90°	260°	420°	-160°	42"	GC 501	29.80
180°	310°	48.50°	70°	24"	GC 503	27.80
310°	360°	490°	160°	24"	GC 506	27.80
-60°	170°			46"	GC-510*	27.80

* REVERSE RISE CAM FOR WESTINGHOUSE APPLICATIONS

GC-600 SERIES

FREEZER/REFRIGERATOR CONSTANT DIFFERENTIAL

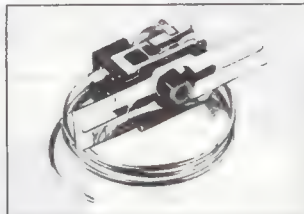
The GC-600 series cold controls offer to the service technician the temperature ranges and capillary lengths for both "frostless" and conventional models of freezer and refrigerator design.

You now have a choice — choose the temperature range — choose the capillary length to properly serve your universal replacement demands.

SPECIFICATIONS

CALIBRATIONS °F					GEM CONTROL PART NO.	EACH
NORMAL OFF	NORMAL ON	WARM ON	COLD OFF	CAP LENGTH		
-160°	110°	200°	-270°	84"	GC-605	29.80
-130°	00°	120°	-300°	78"	GC 602	28.60
-130°	90°	200°	-270°	18"	GC 611	28.30
-120°	60°	200°	-340°	36"	GC 604	28.30
100°	40°	18.50°	300°	31"	GC-608	28.30
80°	10°	130°	230°	31"	GC-607	29.80
70°	4.50°	190°	260°	45"	GC 610	29.80
-70°	90°	230°	260°	108"	GC 603	31.20
-70°	90°	230°	260°	24"	GC 609	28.60
-50°	150°	27.50°	250°	48"	GC-606	28.60
50°	40°	220°	-290°	78"	GC-601	29.80
* -120°	20°			38"	GC-612*	

* REVERSE RISE CAM FOR WESTINGHOUSE APPLICATIONS



TB-076

CAP CATCHER

INSTALL COLD CONTROLS THE EASY WAY \$ 9.50

Attach the Special Nut of the Cap Catcher to the end of the old cold control cap tube, and unree! sufficient cable to allow for removal of the control. Attach the nut to the end of the new control cap tube and pull easily into position.

A 10 FT. CABLE IS COILED ON THE REEL

COLD CONTROLS UNIVERSAL REPLACEMENT

UL & CSA LISTED

GEMLINE®

GC-700 SERIES ROOM AIR CONDITIONER

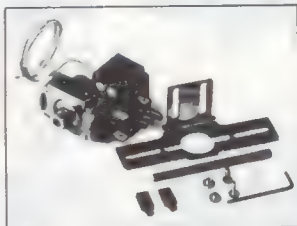
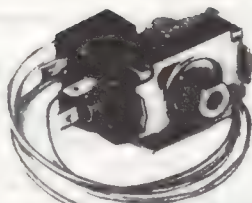
GEMLINE universal room air conditioner controls are designed to give the service technician a broad useful coverage with a minimum of stock.

Your choice of ambient bulb, straight or aircoil capillary. Each control is supplied with an accessory package and it replaces Cutler-Hammer, General Electric, Ranco, and Robert Shaw.

U.L. & C.S.A. Listed

SPECIFICATIONS

SPECIFICATIONS				ELECTRICAL RATINGS 120/240V			GEM CONTROL	EACH	
RANGE COLD OFF	WARM ON	DIFF °F	CAPILLARY LENGTH BULB	SWITCH	F L A	L.R.A.	PART NO.		
52°F	93°F	6°F	18"	1" AIRCOIL	S.P.S.T.	20A	80A	GC-701	25.90
52°F	93°F	6°F	36"	STRAIGHT	S.P.S.T.	30A	125A	GC-702	26.00
50°F	93°F	8°F	35"	AMBIENT	S.P.S.T.	20A	80A	GC-703	32.80
61°F	98°F	4°F	36"	STRAIGHT	S.P.S.T.	20A	80A	GC-704	25.90
61°F	98°F	4°F	35"	AMBIENT	S.P.S.T.	30A	125A	GC-705	33.90
48°F	95°F	13°F	36"	STRAIGHT	S.P.S.T.	20A	80A	GC-706	25.90
52.5°F	93°F	6°F	36"	STRAIGHT	S.P.D.T.	25A	80A	GC-707	28.60
52.5°F	93°F	6°F	31"	AMBIENT	S.P.D.T.	25A	80A	GC-708	35.20

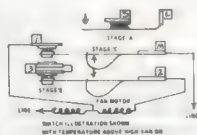


GC-740 SERIES STAGING THERMOSTATS

The GEMLINE GC-740 Series staging controls offer 3 stages (2 fan switches).

The 3 stage control offers compressor control plus 2 fan switches. Replaces controls with one fan switch. Complete instructions and accessory kit packaged with each control.

- Stage A is compressor on-off switch.
- Stage B is fan on-off switch.
- Stage C is hi fan switch.



SPECIFICATIONS

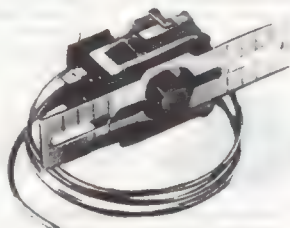
COLD POSITION				WARM STAGE 1 ON	CAPILLARY LENGTH	BULB	GEM CONTROL PART NO.	EACH
STAGE 1 OFF	STAGE 2 OFF	STAGE 3 OFF	ON					
58°F	63°F	54°F	58°F	62°F	66°F	88°F	GC-741	44.60
58°F	63°F	54°F	58°F	62°F	66°F	88°F	GC-742	47.00

GC-900 SERIES BEVERAGE & WATER COOLER

The GEMLINE 900 Series beverage and water cooler cold controls are specially keyed to the most common universal applications. Offering temperature ranges and adequate capillary length to cover the majority of replacement needs.

SPECIFICATIONS

CALIBRATION DATA °F				GEM CONTROL PART NO.	EACH
NORMAL OFF	WARM ON	COLD OFF	CAP LENGTH		
16°F	24°F	37.5°F	10"	GC 901	28.60
18°F	40°F	53°F	30"	GC 905	29.80
24°F	37°F	56°F	50"	GC 902	
30°F	37°F	50°F	14.50"	GC 904	28.60
42°F	50°F	67°F	20"	GC 903	



Manufactured to Gem's specifications by the world's leading OEM Control manufacturer.

EVAPORATOR FAN MOTORS

UNIVERSAL SERIES

GEMLINE



EM-240 SERIES

This **SERIES of 6 Motors** offers the greatest coverage for all brands and applications.

The Gemline EM-240 Universal Motors are the only series in the industry designed to offer proper replacement. Included is the correct shaft size, mounting brackets, and adapters to replace the original motor.

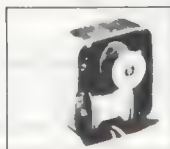
No other motor program offers such adaptability.

Part No.	Rotation	Shaft Dia.	Shaft Length	
EM-241	CW/CCW	HUB	1 1/4	22.80
EM-242	CW/CCW	HUB	2 1/8	23.30
EM-244	CW/CCW	1/8	1 1/4	23.60
EM-245	CW/CCW	1/8	2 1/8	25.00
EM-247	CW/CCW	3/16	2 1/4	23.30
EM-248	CW/CCW	3/16	3 1/4	23.30

Improved quality construction: Heavy duty bearings - ground steel shaft - 12" leads - ground terminal - 3,000 R.P.M. - 120V 50/60Hz impedance protected. Reversible shaft rotor for CW or CCW rotation as required.

The EM-240 Series Motors completely replaces the original EM-230 series and offers greater coverage.

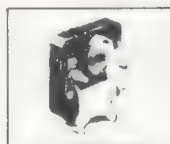
* The six EM 240 Series motors shown below are recognized under the component program of Underwriters Laboratories Inc.



EM-241



EM-242



EM-244



EM-245



EM-247



EM-248

DEFROST TIMER PLUG-ON/CC SERIES

100%
REPLACEMENT
WITH ONLY 8 TIMERS

EXCLUSIVE FEATURES

- Totally enclosed case design
- No. exposed wires or leads
- No ground wire required
- Quieter run operation
- New Oil Reservoir
- 15 AMP capacity allows for higher current loads
- Compact dust-proof case design
- Visual motor run indicator
- New Oilite Bearing



Adapter plug, mounting plate, screws, electrical accessories, and complete instructions are included.

Timer No.	Defrost Freqncy Hrs.	Defrost Timer Minutes	Each
CC-801	12	30	23.20
CC-802	12	21	23.20
CC-803	8	28	22.50
CC-804	8	20	22.50
CC-805	8	14	23.20
CC-806	6	25	23.20
CC-807	6	25 (2 & 4)	23.20
CC-808	6	21	23.20

GEMLINE®

CONDENSER FAN MOTORS

Highest quality one-piece cast unit bearing construction with positive circulation of oil to bearings. Designed for shaft-horizontal operation, the many mounting variations allow the Morrill motor to interchange with any equivalent motor.

DIRECT REPLACEMENT:

- GENERAL ELECTRIC 51 FRAME
- MORRILL
- REDMOND AND UNIVERSAL
- 115V & 230V - 50/60 Hz, 1/300 TO 1/50 H.P. - 1450 R.P.M.

Condenser Fan Motors can be used in commercial/domestic refrigerators, freezers, refrigeration display cases, and condensing units. They can also be used in evaporative coolers, unit heaters, exhaust fans, room air conditioners, and vending machines.

Each motor is furnished with a package containing neoprene silencer, fan blade adaptor and speed nut for mounting fan on hub and self-tapping screws.

All 4 watt, 230 volt motors are rated 50/60 HZ (cycle). All 6, 9, and 16 watt 230V motors are rated for 50 HZ operation at 200-220 volts, as in export application.

Rotation as viewed from end opposite shaft.

Part No	Morrill Part No.	Watt Output	Rotation	Volts	Lead Length	EACH
* EM-3201	SP-B2HCEM1	2	CW	115	38"	27.30
EM-3401	SP-B4HCEM1	4	CW	115	22"	30.60
EM-3402	SP-B4HCEM2	4	CW	230	22"	30.30
EM-3451	SP-B4HCEMR1	4	CCW	115	22"	30.60
EM-3452	SP-B4HCEMR2	4	CCW	230	22"	30.60
EM-3601	SP-B6HCEM1	6	CW	115	22"	33.30
EM-3651	SP-B6HCEMR1	6	CCW	115	22"	33.30
EM-3901	SP-B9HCEM1	9	CW	115	22"	34.50
EM-3902	SP-B9HCEM2	9	CW	230	22"	37.10
EM-3951	SP-B9HCEMR1	9	CCW	115	22"	34.50
EM-3952	SP-B9HCEMR2	9	CCW	230	22"	34.50
EM-31601	ESP-L16EM1	16	CW	115	22"	50.60
EM-31602	ESP-L16EM2	16	CW	230	22"	52.50
EM-31651	ESP-L16EMR1	16	CCW	115	22"	50.60
EM-31652	ESP-L16EMR2	16	CCW	230	22"	52.50

* Four-pole hi-slip design 950 to 1050 load R.P.M.

WHIRLPOOL-COLDSPOT 833697 \$ 33.30

An exact replacement motor for use on thousands of model applications. No adjustments for mounting are required. 2W-CW-115V-50/60Hz w/40" leads replaces: 549047, 549048, 833518, 205943, 510634, 515272, 552919, 553235, 604292, 605292, 606289, 606339, 799397, 515272, 515396, 517385, 530423, 530670,

2 thru 9 Watt Morrill Motor with Aluminum Frame.

* True Universal Mounting
No extended hubs to break or saw off.

16 Watt Electric Motors & Specialties Motor with Cast Iron Frame.

CORE REMOVAL TOOL Part No. TB-013(CRT)

\$ 33.90

A tool designed for removing and replacing a "Schrader" type core, without losing the charge.



Shut off valve 2500 psi neoprene sleeve expands, closing off system after core is removed

1/4" male flare- Hose may be attached, shut off valve opened and vacuum pulled if desired

1/4" female flare-o-ring seating system

Grappler--Push down, grab core, unscrew and pull up



Cartridge Type Bearings

SINTERED BRONZE BUSHINGS, STEEL BEARING CAPS, FACTORY LUBRICATED

Part Number	Model and Description	Master Ctn. Qty.	Wt. Lbs.		EACH
			Ea.	M/C	
38-2091-01	½" — Mark IV — Pair	10 Pr.	0.8	5.0	\$ 16.10
38-2272-01	¾" with Journal — Mark III — Pair	10 Pr.	0.12	8.0	26.90
38-2090-01	1" — Mark III — Pair	10 Pr.	0.6	3.14	16.10



Lau Oil Type Bearings with insulator

SELF-ALIGNING, SELF-OILING BRONZE BUSHING, DRIVE TYPE OIL CUP

Part Number	Model and Description	Master Ctn. Qty.	Wt. Lbs.		EACH
			Ea.	M/C	
38-2404-01	5/8" — Oil Type — Pair	10 Pr.	0.8	5.5	\$ 11.90
38-2442-01	3/4" — Oil Type — Pair	10 Pr.	0.7	4.12	12.60
38-2442-02	1" — Oil Type — Pair	10 Pr.	1.0	10.4	14.40



Sealed Type Bearings with insulator

SELF-ALIGNING, POROUS BRONZE SLEEVE, FACTORY LUBRICATED

Part Number	Model and Description	Master Ctn. Qty.	Wt. Lbs.		EACH
			Ea.	M/C	
38-2443-01	5/8" — Lau-Pak — Pair	10 Pr.	0.8	5.5	\$ 11.90
38-2443-02	3/4" — Lau-Pak — Pair	10 Pr.	0.7	4.12	12.60
38-2443-03	1" — Lau-Pak — Pair	10 Pr.	1.0	10.9	14.40



Oil Type Bearings with insulator

SELF-ALIGNING, SELF-OILING SINTERED BRONZE BUSHING, DRIVE TYPE OIL CUP

Part Number	Model and Description	Master Ctn. Qty.	Wt. Lbs.		EACH
			Ea.	M/C	
38-2450-01	3/4" — Oil Type — Pair	10 Pr.	0.9	5.14	\$ 14.40
38-2449-01	1" — Oil Type — Pair	10 Pr.	0.9	6.2	14.90
38-2094-01	1" — Heavy Duty — Pair	10 Pr.	.15	10.8	17.90



Flange Type Bearings

REOILABLE POROUS SINTERED BRONZE BUSHING

Part Number	Model and Description	Master Ctn. Qty.	Wt. Lbs.		EACH
			Ea.	M/C	
38-2082-01	3/4" — Mark I-II — Pair	10 Pr.	0.8	5.0	16.20

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND
CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.



Shafts

GROUND AND POLISHED. EXCESS SHAFT MAY BE CUT OFF

Part Number	Model and Description	Master Ctn. Qty.	Wt. Lbs.		EACH
			Each	M/C	
38-2205-01	5/8" x 20" Shaft — Solid — Each	10	2.0	20.0	\$ 11.50
38-2096-01	3/4" x 20" Shaft — Solid — Each	10	2.12	27.8	11.50
38-2095-01	1" x 25" Shaft — Solid — Each	10	5.14	58.12	19.30
38-2492-01	1" x 35" Shaft — Solid — Each	---	8.2	---	24.70
38-2613-01	1-3/16" x 48" Shaft — Solid — Each	---	16.0	---	75.00
38-2614-01	1-3/16" x 68" Shaft — Solid — Each	---	22.8	---	101.20
38-2619-01	1-7/16" x 52" Shaft — Solid — Each	---	25.0	---	118.00
38-2594-01	1" x 25" Shaft — Hollow — Each	10	3.0	32.0	



Pillow Block Bearings

HEAVY NEOPRENE CUSHIONED. REILABLE POROUS BRONZE BUSHING

Part Number	Model and Description	Master Ctn. Qty.	Wt. Lbs.		EACH
			Ea.	M/C	
38-2204-01	5/8" — Pillow Block — Pair	10 Pr.	0.12	7.7	\$ 12.60
38-2086-01	3/4" — Pillow Block — Pair	10 Pr.	0.12	7.12	12.60
38-2087-01	1" — Pillow Block — Pair	10 Pr.	1.0	11.7	13.20
38-2093-01	1" — Heavy Duty P.B. — Pair	10 Pr.	2.0	20.4	21.90



Bearing Bracket Kit

COMPLETELY ASSEMBLED AND READY TO MOUNT. INCLUDES SHAFT AND HARDWARE

Part Number	Model and Description	Wt.-Lbs.-Oz.	EACH
37-2230-01	3/4" Kit	5 - 11	\$ 43.40
37-2231-01	1" Kit	9 - 8	52.00



Direct Drive To Belt Drive Conversion Kit

INCLUDES BEARING BRACKET & SHAFT ASS'Y, MOTOR MOUNT, TAILPIECE, HARDWARE

Part Number	Model and Description	Wt.-Lbs.-Oz.	EACH
101367-01	For all sizes	4 - 12	\$ 80.40



Motor Speed Control for direct drive blowers

CAN BE ATTACHED TO THE BLOWER HOUSING OR USED AS A REMOTE CONTROL

Part Number	Model and Description	Wt.-Lbs.-Oz.	EACH
38-2226-01	For 1/8 and 1/6 HP Motors	3 - 5	\$ 52.20
38-2227-01	For 1/4 and 1/3 HP Motors	3 - 5	62.30

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.



Direct Drive Blowers Less Motors

SAME AS ABOVE BUT WITHOUT MOTOR, MOTOR MOUNTING BRACKETS ARE INCLUDED

Part Number	Model and Description	Wt.-Lbs.-Oz.	EACH
38-2513-01	9 $\frac{1}{2}$ " DD9-7R	17	\$ 75.50
38-2513-02	9" DD9-9R	19	75.50
38-2513-03	10 $\frac{1}{2}$ " DD10-8R	21	82.30
38-2513-04	10" DD10-10R	26	82.30
024840-28	12 $\frac{1}{2}$ " DD12-9A	30	136.30
024840-29	12" DD12-12A	35	136.30



Variable Pitch Motor Pulleys

ZINC PLATED PRESSED STEEL, CAST IRON, AND DIE CAST PERMIT SPEED VARIATION OF APPROXIMATELY 30%

Part Number	Model and Description	Master Ctn. Qty.	Wt. Lbs.		EACH
			Ea.	M/C	
270-009-01	Zinc Plated Steel — $\frac{1}{2}$ " x 3 $\frac{1}{4}$ " — Ea.	6 Pcs.	0.14	4.9	
270-007-01	Zinc Plated Steel — 5/8" x 3-1/4", Ea.	6 Pcs.	0.11	4.4	
270-069-01	Cast Iron — 1/2" x 3-1/4" — Ea.	6 Pcs.	1.1	7.2	\$ 10.90
270-072-01	Cast Iron — 5/8" x 3-1/4" — Ea.	6 Pcs.	1.1	6.14	10.90
270-089-17	Cast Iron — 1/2" x 4" — Ea.	6 Pcs.	1.6	8.12	14.80
270-089-12	Cast Iron — 5/8" x 4" — Ea.	6 Pcs.	1.6	8.6	14.80
024-768-09	Die Cast — 1/2" x 3-1/4" — Ea.	6 Pcs.	1.0	7.0	9.60
024-768-10	Die Cast — 5/8" x 3-1/4" — Ea.	6 Pcs.	1.0	7.0	9.60
024-768-01	Die Cast — 3/4" x 3-1/4" — Ea.	6 Pcs.	1.0	7.0	9.60
024-768-02	Die Cast — 5/8" x 3-1/2" — Ea.	6 Pcs.	1.3	8.8	10.90
024-768-03	Die Cast — 3/4" x 3-1/2" — Ea.	6 Pcs.	1.3	8.8	10.90
024-768-04	Die Cast — 3/4" x 4" — Ea.	6 Pcs.	1.5	10.0	12.50
024-768-05	Die Cast — 1" x 4" — Ea.	6 Pcs.	1.5	10.0	12.50
024-768-06	Die Cast — 5/8" x 4-1/2" — Ea.	6 Pcs.	1.12	7.8	18.00
024-768-07	Die Cast — 3/4" x 4-1/2" — Ea.	6 Pcs.	1.12	7.8	18.00
024-768-08	Die Cast — 1" x 4-1/2" — Ea.	6 Pcs.	1.12	7.8	18.00



Blower Pulleys

Part Number	Model and Description	Wt.-Lbs.-Oz.	EACH
TWO-PIECE STEEL SPREAD SPOKE TYPE WITH INTERNAL HUB FOR MAXIMUM RIGIDITY			
38-2507-01	5/8" x 5"	15	\$ 8.40
38-2213-01	3/4" x 5"	15	8.40
38-2615-01	1" x 5"	12	8.40
38-2508-01	5/8" x 6"	1 - 3	9.40
38-2214-01	3/4" x 6"	1 - 1	9.40
38-2446-01	1" x 6"	15	9.40
38-2509-01	5/8" x 7"	1 - 4	10.20
38-2215-01	3/4" x 7"	1 - 6	10.20
38-2216-01	1" x 7"	1 - 4	10.20

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.



Thrust Sleeve & Spacer Kit

PLASTIC SLEEVE WITH ASSORTMENT OF SPACERS FOR EASY ADJUSTMENT OF ANY BLOWER

Part Number	Model and Description	Master Ctn. Qty.	Wt. Lbs.		EACH
			Ea.	M/C	
38-2203-01	3/4" — Single Kit — Pair	10 Kits	0.1	.10	\$ 4.70



Thrust Collar Kit

WITH HOLLOW HEAD (ALLEN) SET SCREWS. INCLUDES THRUST WASHERS

Part Number	Model and Description	Master Ctn. Qty.	Wt. Lbs.		EACH
			Ea.	M/C	
38-2431-01	5/8" — Single Kit — Pair	10 Kits	0.4	2.4	\$ 5.30
38-2206-01	3/4" — Single Kit — Pair	10 Kits	0.2	1.5	5.00
38-2207-01	1" — Single Kit — Pair	10 Kits	0.5	1.13	7.10



Thrust Spacer Kit

ASSORTMENT OF SPACERS FOR EASY ADJUSTMENT ON ANY BLOWER

Part Number	Model and Description	Master Ctn. Qty.	Wt. Lbs.		EACH
			Ea.	M/C	
38-2491-01	5/8" — Bag of 12	10 Bags	0.1	0.8	\$ 3.70
38-2491-02	3/4" — Bag of 12	10 Bags	0.2	1.1	4.10
38-2491-03	1" — Bag of 12	10 Bags	0.3	1.10	4.60



Vibro-Pads

RESILIENT RUBBER PADS SNAP EASILY INTO PLACE. ELIMINATE VIBRATION AND NOISE

Part Number	Model and Description	Master Ctn. Qty.	Wt. Lbs.		EACH
			Ea.	M/C	
38-2209-01	Bag of 12	10 Bags	0.3	2.0	\$ 5.20



Motor Mounting Hardware, Adjustment Kits & Grommets

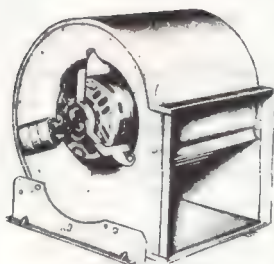
MOTOR ATTACHMENT AND ADJUSTMENT HARDWARE FOR 9", 10", 12", AND 15" BLOWERS

Part Number	Model and Description	Master Ctn. Qty.	Wt. Lbs.		EACH
			Ea.	M/C	
38-2521-01	For 9" 15" blowers — Attachment and adjustment hardware — 1 bag	10 Bags	0.8	5.0	\$ 6.30
38-2523-01	Tailpiece assembly only — one	10 Pcs.	0.6	3.12	4.40
38-2525-01	Grommets only — bag of 6	10 Bags	0.2	1.4	4.40

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

DIRECT-DRIVE BLOWER

For Heating and Air Conditioning and Ventilating Systems



Interchanges in the field with most direct-drive blowers

1/3 HP Motor Dayton Direct-Drive Blowers with 4-speed, permanent-split capacitor motor. Widely used for new and replacement installations in heating and air conditioning systems. Can be mounted in any of the four discharge positions shown below provided others are rotated for proper position. Heavy gauge steel construction, gray enamel finish. Neoprene motor mounting rings, 36" long, 90°C. neoprene leads provide adequate length for electrical connection to switch (see index under "Switches, Rotary," No. 4X739, not included) for No. 4C058 blower only. Simplifies seasonal changeover. Motor has automatic reset thermal protection, 1100 RPM in Hi, 6-pole, 4-speed tap winding. Mounting supports (not supplied) listed below. Shpg. wts. 33, 34, 48, & 51 lbs. respectively.



BOTTOM HORIZONTAL



UP BLAST



TOP HORIZONTAL



DOWN BLAST

DIRECT-DRIVE BLOWER PERFORMANCE, DIMENSIONS & PRICES

Wheel Dia. W	CFM AIR DELIVERY AT SPEED SHOWN(°)						Motor Speed(%)	DIMENSIONS			WITH 1/3 HP, 115V, 60 Hz. MOTOR	
	0.4" SP	0.5" SP	0.6" SP	0.7" SP	0.8" SP	0.9" SP		Outlet H	W	Overall H D	Stock No.	
9 1/2" 9 1/2"	1780	1715	1635	1530	1390	1190	1	10 1/4"	11 1/4"	16" 14" 15"	4C058	\$ 215.70
		1550	1480	1390	1270	1050	2					
			1340	1275	1170	900	3					
				1230	1175	1060	4					

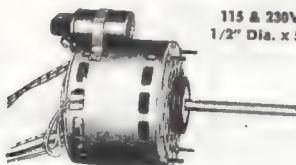


PUNCHED MOUNTING SUPPORTS FOR ABOVE BLOWERS

For Blower No.	Position	Stock No.	
	Bottom & Up		
	Any	2C335	\$ 6.38
	Any		

1/3 HP, 3-SP. BLOWER MTRS.

Permanent Split Capacitor Type. Thermal Prot.



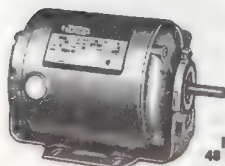
115 & 230V Models
1/2" Dia. x 5" L Shaft

For direct-drive furnace blowers and other air-over fan applications where motor speed selection is required in the field to meet static pressure load of each installation. Motors deliver 1/3, 1/4 or 1/6 HP at 1050, 1000 and 900 RPM respectively. Simple, quick-connect, built-in terminal block on motor shell permits speed selection. 60 Hz. Sleeve bearings, 50°C rise, 1.0 service factor, Class A insulation. Continuous duty, open construction. NEMA 48 frame, 1/2" dia. x 5" long shaft with 4 1/4" flat. 2 1/2" mtg. rings on 5" centers. 5 1/2" dia. round body, length including rings, 5 1/2". Rotation easily reversed by electrical reconnection. Capacitor incl. Gray finish.

Stock No.	Volts	F/L Amps	EACH
3M296	115	4.8	\$ 109.18
3M355	230	2.7	110.98

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

FURNACE BLOWER & FAN-DUTY MOTORS



NEMA
48 FRAME

1/6 to 3/4 HP, 1725 or 1725/1140 RPM
Split Phase. Thermal Protection
40° & 50°C Rise, Continuous Duty
Low Noise, Reduced Starting Torque



NEMA
56 FRAME

Engineered and built for superior service on furnace blowers, air coolers, belt-driven fans and similar applications that require reduced starting torque, low starting amps. and low noise level. Split phase, 115, 208-230 & 115/230V,

60 Hz. Resilient mounted. Sleeve bearings. 40°C and 50°C rise, continuous duty models. Rotation easily reversed. Dripproof. Automatic reset thermal protection. Recognized by UL under the Motor Component Recognition Program.

HP	RPM	Volts 60 Hz	°C Rise	NEMA Frame	Shaft Dia.	Long	Type	Full-Load Amps @ 1725 RPM	Stock No.	EACH
1/6	1725	115	40°	48	3/8	1 1/4	Flat	3.3	5K906	\$ 77.28
1/4	1725	115	50°	48	3/8	1 1/4	Flat	4.9	5K908	79.94
	1725	115	40°	48	3/8	1 1/4	Flat	4.3	5K907	83.22
	1725	115	40°	48/56*	3/8	1 1/4	Flat*	4.7	5K977*	83.22
	1725	115	40°	56	3/8	1 1/4	Key	4.4	5K260	83.22
1/3	1725	115	50°	48	3/8	1 1/4	Flat	5.8	5K909	87.68
	1725	115	40°	48	3/8	1 1/4	Flat	5.8	5K682	96.60
	1725	208-230	40°	48	3/8	1 1/4	Flat	3.2	6K717	102.60
	1725	115	40°	48/56*	3/8	1 1/4	Flat*	5.8	6K030*	88.80
	1725	115	40°	56	3/8	1 1/4	Key	5.4	5K261	96.60
	1725/1140†	115	40°	56	3/8	1 1/4	Key	6.4	5K654	150.02
	1725	115	40°	48	3/8	1 1/4	Flat	7.0	5K910	135.22
	1725	115	50°	56	3/8	1 1/4	Key	7.6	6K399	135.22
1/2	1725	208-230	40°	56	3/8	1 1/4	Key	3.9	6K729	109.36
	1725	115	40°	56	3/8	1 1/4	Key	7.4	5K416	141.18
	1725/1140‡	115	50°	56	3/8	1 1/4	Key	9.5	5K620	150.02
	1725/1140‡	115	40°	56	3/8	1 1/4	Key	8.1	6K394	191.70
	1725	115/230	40°	56	3/8	1 1/4	Key	10.0	6K624	182.78
3/4	1725	115/230	40°	56	3/8	1 1/4	Key	10.0	6K624	182.78

1/3 to 3/4 HP 4-SPEED BLOWER MOTORS

Permanent Split Capacitor Type, Thermal Protection



1/3 HP, Less Cap.
& Bracket

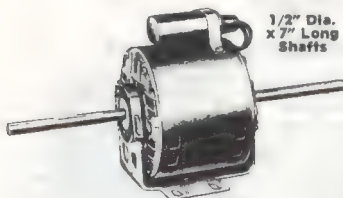
For direct-drive furnace blowers and other air-over fans. Speed selection (in the field) is made by connections shown on motor wiring instructions. Use with No. 4C031 mounting bracket, listed in Index under Motor Access. Mounts, and capacitor listed in table below. All motors 60 Hz. Sleeve bearings. 50°C rise, continuous duty, air-over, open construction. Thermally protected. 5/8" dia., 10 1/4" overall length on 1/3 HP, 12 1/4" on 1/2 HP and 10 1/4" on 3/4 HP. 2 1/4" OD mtg. rings on 4/8" centers on 1/3 HP, 5 1/8" on 1/2 HP and 6 1/8" on 3/4 HP. 3/8" leads, #18 AWG 90°C, oil resistant Neoprene. Clockwise rotation facing shaft end.

HP at Hi-Spd.	RPM	Volts 60 Hz	Long	Shaft— Dia.	Flat	Full- Load Amps	Stock No.	Each
1/3	1100/1060/990/920	115	5"	5/8"	4 1/4"	6.5	3M118	\$ 94.40
1/2	1060/925/840/775	115	5"	5/8"	4 1/4"	8.0	3M142	106.16
3/4	1075/1000/960/935	230	5"	5/8"	4 1/4"	5.5	3M222	126.38

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND
CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

AIR COND. BLOWER PERM. SPLIT CAP. MOTORS

1/4 to 1/2 HP, 115 and 230V, 60 Hz. NEMA 48 Frame. Thermal Protection



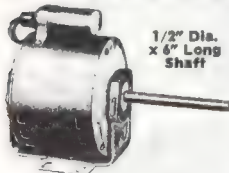
1/2" Dia.
x 7" Long
Shafts

Widely used for new and replacement needs on most standard air conditioning blowers, exhausters, and similar air-over-motor fan applications. Permanent split capacitor type. NEMA 48 frame. 50°C rise, continuous duty. Thermally protected. All-position mounting sleeve bearings. Resilient mount for quiet operation. Double 1/2" dia. x 7" long shafts. Shafts easily cut to size if necessary. 3" shaft height. Capacitor included. All motors 60 Hz. Gray finish. Dayton brand. Adj. venturi mount, length adapter, 3-ring bracket, lug ring adapter and accessories are available, see Index under Motor Accessories. These units will facilitate mounting above motors on all new applications and are widely used in the field for replacement jobs. Recognized by UL under the Motor Component Recognition Program.

HP	RPM	Volts 60 Hz	—SHAFT—			Long. Overall	Less Shaft	Mounting Holes		Full- Load Amps	Stock No.	EACH
			Dia.	Long	Flat			Para.	R.A.			
1/6	1100/950	115	3/4"	7"	6 3/4"	18 1/2"	4 1/2"	1 1/4"	4 3/4"	3.0	3M016	\$ 114.08
	1100/950/850	115	3/4"	7"	6 3/4"	18 1/2"	4 1/2"	1 1/4"	4 3/4"	3.0	3M375	
	1100/950	230	3/4"	7"	6 3/4"	18 1/2"	4 1/2"	1 1/4"	4 3/4"	1.5	3M017	115.06
	1100/950/850	230	3/4"	7"	6 3/4"	18 1/2"	4 1/2"	1 1/4"	4 3/4"	1.5	3M376	
	1550/1200	115	3/4"	7"	6 3/4"	18 1/2"	4 1/2"	1 1/4"	4 3/4"	2.7	3M228	
1/4	1100/950	230	3/4"	7"	6 3/4"	18 1/2"	4 1/2"	1 1/4"	4 3/4"	1.3	3M229	113.62
	1100/950	115	3/4"	7"	6 3/4"	19 1/4"	5 1/4"	1 1/4"	4 3/4"	4.4	3M008	
	1100/950	230	3/4"	7"	6 3/4"	19 1/4"	5 1/4"	1 1/4"	4 3/4"	2.2	3M009	114.46
	1550/1200	115	3/4"	7"	6 3/4"	18 1/2"	4 1/2"	1 1/4"	4 3/4"	3.6	3M064	114.24
	1550/1200	230	3/4"	7"	6 3/4"	18 1/2"	4 1/2"	1 1/4"	4 3/4"	1.8	3M065	116.56
1/3	1100/950	230	3/4"	7"	6 3/4"	19 1/4"	5 1/4"	1 1/4"	4 3/4"	2.5	3M048	126.22
	1100/950/850	230	3/4"	7"	6 3/4"	19 1/4"	5 1/4"	1 1/4"	4 3/4"	2.5	3M378	127.88
	1550/1200/1000	230	3/4"	7"	6 3/4"	19 1/4"	5 1/4"	1 1/4"	4 3/4"	1.9	3M377	121.70
	1100/950	230	3/4"	7"	6 3/4"	19 1/4"	5 1/4"	1 1/4"	4 3/4"	3.3	3M178	137.00

AIR CONDITIONER CONDENSER FAN MOTORS

1/4 to 1/2 HP, 230V, 60 Hz. Perm. Split Capacitor Type. NEMA 48 & 56 Frames. Thermal Protection



1 1/2" Dia.
x 6" Long
Shaft

Designed to fill needs of air conditioner manufacturers and growing replacement need for air conditioner condenser fan motors. Horsepower range provides interchangeability with most condenser fan motors in current use. 1/4 to 1/2 HP, permanent split capacitor types in NEMA 48 & 56 frames. Enclosed, die-cast end shield on shaft end. 50°C rise, continuous duty. Thermally protected. All-position mounting sleeve bearings, except No. 3M295, which is ball bearing. Resilient mount for quiet operation. 3" shaft height. Capacitor included. Electrically reversible; two reversing leads with spade terminals are easily interchanged in quick-disconnect block on motor shell. All motors are 230V, 60 Hz. Gray finish. Dayton brand. Recognized by UL under the Motor Component Recognition Program.

HP	RPM	Volts 60 Hz	—SHAFT—			Long. Overall	Less Shaft	Mounting Holes		Full- Load Amps	Stock No.	EACH
			Dia.	Long	Flat			Para.	R.A.			
1/4	850	230	3/4"	6"	5 1/4"	13 1/4"	7 1/4"	2 3/4"	4 1/4"	2.1	3M294	\$ 136.18
	1100	230	3/4"	6"	5 1/4"	11 1/4"	5 1/4"	1 1/4"	4 3/4"	2.2	3M226	105.10
1/3	850	230	3/4"	6"	5 1/4"	13 1/4"	7 1/4"	2 3/4"	4 1/4"	2.7	3M224	151.26
	1100	230	3/4"	6"	5 1/4"	11 1/4"	5 1/4"	1 1/4"	4 3/4"	2.5	3M217	111.96
	1550	230	3/4"	6"	5 1/4"	11 1/4"	5 1/4"	1 1/4"	4 3/4"	1.7	3M265	110.62
1/2	850	230	3/4"	6"	5 1/4"	13 1/4"	7 1/4"	3	4 1/4"	3.2	3M295*	190.68
	1100	230	3/4"	6"	5 1/4"	11 1/4"	5 1/4"	1 1/4"	4 3/4"	3.3	3M221	124.64

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

AIR CONDITIONER CONDENSER FAN MOTORS

Permanent Split Capacitor, Open Air-Over Type. 1/4 to 1/2 HP, 1075 RPM/2-Speeds, 230V, 60 Hz



Rainshield Included

Thermally Protected

Direct-drive condenser fan motors used by many manufacturers to drive outdoor condenser fans in central air conditioning systems. 1/4, 1/3 and 1/2 HP, 1075 RPM/2-speed, 230V, 60 Hz. Shaft end-shield is enclosed. Extended through bolts are 3/4" to 1 1/4" long for mounting; can also be belly band mounted. All-angle sleeve bearings or ball bearings. NEMA 48Z frame. Automatic reset thermal protection. 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous air-over duty. Wired for CW rotation as viewed from lead end. Rotation easily reversed by electrical reconnection. 24" color-coded leads. Water slinger on shaft. Also included in carton, but not mounted on shaft, is a 3 1/4" dia. rainshield to be used when motor is installed in vertical shaft-up position. Body dia. 5 5/8". Recognized by UL for construction (E46993) under the Motor Component Recognition Program. CSA certified. Gray finish. Westinghouse brand.

HP	RPM	Volts 60 Hz	Bearings	Shaft Dia.	Length Shaft	Length Less Shaft	Full- Load Amps	Westing- house Style No.	Stock No.	Each	Less Cap. Wt.	Shpg. Wt.	Capacitor Req'd.
1/4	1075/2-Spd.	230	Siv	1/2"	4 1/2"	4 1/4"	2.0	323P058	3M696	\$ 94.70	12		
1/3	1075/2-Spd.	230	Siv	1/2"	4 1/2"	4 1/4"	2.3	323P059	3M697	100.74	15		5 MFD 370 VAC
1/3	1075/2-Spd.	230	Ball	1/2"	4 1/2"	4 1/4"	2.8	323P199	3M698	112.80	15		
1/2	1075/2-Spd.	230	Siv	1/2"	4 1/2"	4 1/4"	4.0	323P060	3M699	112.50	18		

AIR COND. CONDENSER FAN MOTORS

High Efficiency Design. Permanent Split Capacitor, Open Air-Over Type



1/4 HP

1/2" Dia.
x 6" Long
Shaft

Thermally Protected

Designed to meet today's need for motors that make more efficient use of electricity to lower operating costs. 1/4, 1/3 and 1/2 HP, 1075 RPM, 230V, 60 Hz. Resilient ring mount, also 1 1/4" long mounting studs. Enclosed die-cast endshield on shaft end; water slinger on shaft. All-angle sleeve bearings. NEMA 48Y frame. Automatic reset thermal protection. 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous (air-over) duty. CW rotation facing shaft. Rotation easily reversed. 24" leads. Capacitor, base and clamp assembly not supplied with motor—order separately. Motor bases are listed on nearby page. If required, use No. 3M491 for 1/4 HP motor and No. 3M492 for 1/3 HP. Gray. Recognized by UL for construction (E47479) under the Motor Component Recognition Program. Dayton brand.

HP	RPM	Volts 60 Hz	—Shaft— Dia. Length	Length Less Shaft	Over- all Length	Full- Load Amps	Stock No.	Each	Less Cap. Wt.	Shpg. Wt.	Capacitor Required
1/4	1075	230	1/2" 6"	5 1/2"	11 1/2"	1.7	3M668	\$ 98.92	13		6 MFD 370 VAC
1/3	1075	230	1/2" 6"	5 1/2"	11 1/2"	2.2	3M667	105.56	14		6 MFD 370 VAC
1/2	1075	230	1/2" 6"	6 1/2"	12 1/2"	3.0	3M668	117.92	16		7.5 MFD 370 VAC

AIR CONDITIONER CONDENSER FAN MOTORS

Permanent Split Capacitor, Open Air-Over Type. 1/6 to 1/3 HP, 1075 RPM/2-Speeds, 230V, 60 Hz
Extended Thru-Bolts. Automatic Reset Thermal Protection. Sleeve & Ball Bearing Construction



1/2" Dia.
x 6" Long
Shaft

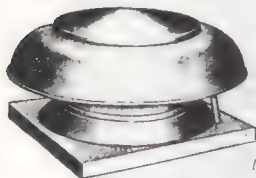
1/6 HP, 1075
RPM/2-Spd.

For new or replacement use on central air conditioning outdoor condenser fans. Also suited for OEM's who build heat pumps and other vertical (shaft up) and horizontal air moving applications. 1/6, 1/4 and 1/3 HP, 1075 RPM/2-speed, 230V, 60 Hz. Thru-bolts extend 1 1/4" from shaft endshield for mounting, 3/4" x 3/4" OC. Shaft endshield is totally enclosed, endshield opposite shaft is open. NEMA 48Y frame. Body dia. 5 5/8". All-position sleeve bearings or ball bearings. Automatic reset thermal protection. 40°C ambient, 1.0 service factor, Class B insulation (70°C rise), continuous duty. Wired for CW rotation facing shaft. Rotation easily reversed: two reversing leads with spade terminals are interchanged in quick-disconnect block on motor shell. Water slinger on shaft. Gray finish. Recognized by UL for construction (E47479) under the Motor Component Recognition Program. Dayton brand.

HP	RPM	Volts 60 Hz	Bearings	Shaft Dia.	Length Shaft	Length Less Shaft	Overall Length	Full- Load Amps	Stock No.	Each	Less Cap. Wt.	Shpg. Wt.	Cap. Required
1/6	1075/2-Spd.	230	Sleeve	1/2"	6"	5 1/2"	11 1/2"	1.3	3M700	\$ 88.60			3 MFD 370
1/4	1075/2-Spd.	230	Sleeve	1/2"	6"	5 1/2"	11 1/2"	1.9	3M701	94.70			5 MFD 370
1/4	1075/2-Spd.	230	Ball	1/2"	6"	5 1/2"	11 1/2"	1.9	3M702	106.76			5 MFD 370
1/3	1075/2-Spd.	230	Sleeve	1/2"	6"	5 1/2"	11 1/2"	2.2	3M703	100.74			7.5 370
1/3	1075/2-Spd.	230	Ball	1/2"	6"	5 1/2"	11 1/2"	2.2	3M704	112.80			7.5 370

10 to 18" WALL OR ROOF VENTILATORS

Single and 2-Speed, Axial-Flow Units. Direct-Drive. Quiet Performance. Aluminum Construction



Exhaust room air quietly and effectively because fan and motor are on outside of building. Mounts in wall or roof positions. Built-in bird screen directs flow of air and makes unit weatherproof. Has aluminum shutter that prevents back drafts. Aluminum fan blade direct-driven by 115V, 60 Hz, shaded pole or permanent split capacitor motors as specified. Two-speed units require DPST switch, No. 2X605, not included. Performance ratings conform to test code of Texas Engr. Experiment Station.

Fan Dia.	Stock No.	Overall Dia.	H	Mtg. Flange Inside Sq.
10"	2C912	18"	14"	16 1/4"
12	4C097	21 1/4"	14	18 3/4"
14	2C913	27	17	21
14	4C204	27	17	21
18	2C960	34	20	26
18	4C205	34	20	26

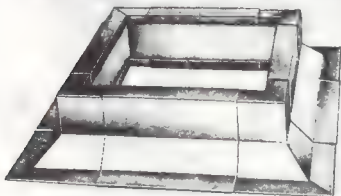
SINGLE-SPEED, 1500 & 1100 RPM, 115V, 60 Hz VENTILATORS

Fan Dia.	Free Air	CFM AIR DELIVERY						MOTOR DATA				Stock No.	EACH
		0.1" SP	0.2" SP	0.3" SP	0.4" SP	0.5" SP		HP	RPM	Type	Frame		
10"	495	305	195	—	—	—	1/30	1500	S. Pole	T/E		2C912	\$ 237.56
12	940	825	635	425	185	—	1/10	1500	S. Pole	Open		4C097	334.16
14	1450	1220	960	835	660	440	1/6	1100	P. Split	T/E		2C913	481.68
18	2460	2300	2100	1860	1570	1300	1/3	1100	P. Split	T/E		2C960	611.94

TWO-SPEED, 1100/800 RPM, 115V, 60 Hz VENTILATORS

Fan Dia.	Free Air	0.1" SP	0.2" SP	0.3" SP	0.4" SP	0.5" SP	MOTOR DATA				Stock No.	EACH
							HP	RPM	Type	Frame		
14"	1450	1220	960	835	660	440	1/6	1100	P. Split	T/E	4C204	485.20
	970	820	640	560	440	295		800				
18"	2460	2300	2100	1860	1570	1300	1/3	1100	P. Split	T/E	4C205	615.80
	1640	1540	1400	1240	1050	870		800				

ADJUSTABLE CURBS FOR ROOF VENTILATORS



(*) Maximum allowable clearance for roofing flashing felts (supplied by others).

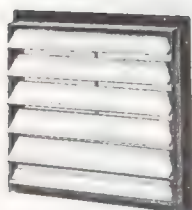
Sturdy Dayton curbs speed fan installation and provide uniformity throughout entire job. Adjustable design allows a single curb to fit several fan sizes. Fit Dayton fans and ventilators listed below and most others of similar design. Heavy gauge galvanized steel construction with continuous-welded corners. Built-in canted surface accommodates roofing material up the side

and over top of curb for leakproof installation. Load strength is more than adequate for all fans and ventilators. Includes fibreglass insulation to deaden sound and minimize heat loss. 2 x 2" wood nailers (not supplied) easily field adapted. Curbs are fabricated by International Molders' and Allied Workers' Union. Shipped knocked down. Assemble in minutes.

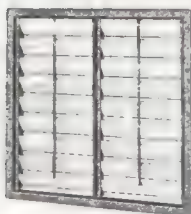
Curb Adj. Range Outside Sq. Dim.	Fits Dayton Ventilator or Fan	Stock No.	EACH
14 3/4" to 23 1/2"	2C912, 2C913, 4C097, 4C204, 4C398, 4C399, 4C400	4C453	\$ 120.88
24 1/2" to 33 1/4"	2C960, 3C083, 3C054, 3C129, 3C205, 3C212, 4C205	4C454	161.92
35 to 43 3/4"	3C130, 3C189, 3C206, 3C207, 3C213, 3C214, 7F250 thru 7F269	4C455	202.34
48 to 57 1/2"	3C208, 7F270 thru 7F289	3C216	314.00

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

WALL SHUTTERS



DISCHARGE SIDE
Single Panel Unit Shown



FAN SIDE
Double Panel Unit Shown



OPTIONAL SHUTTER MOTOR

Precision built wall shutters for direct or belt-driven exhaust fans. Vanes open automatically when fan turns on, close when air flow ceases. Can be motorized to relieve starting load on fan motor using optional shutter motor listed. Choice of standard units for normal applications or rust resistant units for corrosive environments as in poultry houses, barns, chemical plants, foundries, etc.

Aluminum vanes are counterbalanced for easy opening, steel reinforced for strength, and felted for quiet, weathertight closure. Stainless steel vane pivot pins on rust resistant units, steel pins on standard units. Tie rod is attached to vanes on fan side; 54 & 60" shutters have two

additional tie rods on discharge side for uniform opening and closing. Vanes of rust-resistant units are finished in white acrylic enamel, vanes of standard units are bare aluminum. Shutter frame is 18-gauge welded steel; rust-resistant units finished in red enamel, standard units in gray enamel. Frame is 4 1/4" D with 1 1/2" flange. Ample 1/2" dia. mounting holes.

OPTIONAL SHUTTER MOTOR—For 10 thru 48" shutters only, single or double panel. Relieves starting load on fan motor by automatically opening and closing shutter. Assures uniform opening and closing. Motor housing is 7 H x 1 1/2 W x 3 3/4" D. 6" L leads, ground wire included, plus junction box for easy wiring. 115V, 60 Hz. Appropriate motor stock number listed under tables below.

For Fan Dia.	Opening Required Square	Overall Dimen. Square	STANDARD SHUTTERS		RUST-RESISTANT SHUTTERS	
			Stock No.	EACH	Stock No.	EACH
SINGLE PANEL SHUTTERS FOR 10 to 30" DIA. FANS						
10"	11"	13 1/4"	2C526	\$ 21.42	4C110	\$ 25.44
12	13	15 1/4	1C742	23.82	4C111	28.30
16	17	19 1/4	1C743	31.02	4C112	37.50
18	19	21 1/4	1C744	34.68	4C113	41.16
20	21	23 1/4	1C745	37.16	4C038	44.22
24	25	27 1/4	1C746	44.22	4C039	52.86
30	31	33 1/4	1C055	53.36	4C040	63.36
SHUTTER MOTOR—For above single panel shutters. 3 lbs. No. 2C831.						64.50
DOUBLE PANEL SHUTTERS FOR 36 to 60" DIA. FANS(*)						
36"	37"	39 1/4"	1C209	\$ 87.64	4C041	\$ 103.02
42	43	45 1/4	1C210	104.80	4C114	124.52
48	49	51 1/4	1C211	121.64	4C115	145.10
54(*)	55	57 1/4	3C115	183.70	—	—
60(*)	61	63 1/4	3C116	201.10	—	—

(*) Nos. 3C115 & 3C116 also have two auxiliary tie rods on discharge side of vanes to accommodate high velocity fans and blowers.

SHUTTER MOTOR—For 36, 42 & 48" double panel shutters. 5 lbs. No. 2C832. \$ 71.50

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND
CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

REPLACEMENT GUIDE FOR DAYTON WATER HEATER ELEMENTS

Dayton water heater elements can be installed easily and quickly even when parts removed with old element do not exactly match parts furnished with the replacement. When a mismatch occurs, additional gaskets or a flange may be required. Such parts are available in

Dayton adapter kit No. 2E483. With either a screw-in, bolt-on or combination screw-in and adapter kit, 98% of elements in use today can be replaced. The illustrations below show which element to use and the arrangement of parts required for a proper installation.

WHEN THIS IS REMOVED FROM THE HEATER	USE THIS TYPE ELEMENT	PLUS ADAPTER KIT No. 2E483	INSTALL PARTS IN THIS ARRANGEMENT
	 Screw-In	None Required	
	 Screw-In		
	 Screw-In		
	 Bolt-On		
	 Screw-In		
	 Bolt-On	None Required	

ASME/AGA RATED TEMPERATURE & PRESSURE RELIEF VALVE

Recommended for all water heater installations. ASME rated for 450,000 BtuH, AGA rated for 100,000 BtuH. Meets latest ASA, NBA, CGA & FHA standards. Factory set for 210°F, 150 PSI. 1/4" NPT inlet and outlet. 5" L sensing element extension. Durable brass body with stainless steel spring and silicon bib washer. Manual relief lever for flushing. Shpg. wt. 1 lb.

No. 4X563. \$ 9.00



DAYTON IMMERSION WATER HEATER ELEMENTS

Screw-In and Bolt-On Types. 750 to 4500 Watts. 120 or 240V, 60 Hz. Low-Watt Density Design



Dayton immersion type low-watt density elements alone, or with a Dayton adapter kit will replace 98% of electric elements in use today. Construction is of nickel-chromium wire encased in heavy-walled copper tubing, zinc plated to inhibit corrosion and rust. CSA Certified, UL Component Recognized.

[A] Screw-In Type—Direct replacement for 1" NPSM threaded elements used on current Dayton, State, and Rheem water heaters. Proper size gaskets included.

[B] Bolt-On Square Flange Type—For square flange elements having 4 bolt holes on 2½" dia. circle. This element will replace all small round flanges used by State and Republic; square flat flanges used by Mor-Flo, Tennessee Tank, W.L. Jackson, A.O. Smith; and offset flange by Bradford-White and most other heaters using a square flange element.

DAYTON ADAPTER FLANGE KIT

For use with screw-in elements. Servicemen can replace most screw-in or bolt-on elements in use during the last 10 years with kit and a Dayton screw-in element. Eliminates need to carry large stock of elements in service truck. Kit has two gaskets, flange, and thermostat bracket. Not all parts will be required for each installation: see replacement guide on next page. Shpg. wt. 5 oz.

No. 2E483. Adapter Kit. \$ 5.24

SCREW-IN WATER HEATER ELEMENT DIMENSIONS AND PRICES

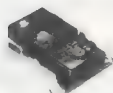
Fig.	Watts	Volts, 60 Hz	Insert Length	Stock No.	EACH	Shpg. Wt.
A	1500	120	10¼"	2E457	\$ 8.48	11 oz.
A	750	240	7¾"	2E458	8.36	10 oz.
A	1000	240	7¾"	2E459	8.50	10 oz.
A	1500	240	10¼"	2E460	8.62	11 oz.
A	2000	240	13¾"	2E478	8.80	12 oz.
A	2500	240	9½"	2E479	9.44	1 lb.
A	3000	240	11½"	2E480	10.30	1 lb.
A	3500	240	13¾"	2E481	10.84	1 lb.
A	4500	240	13¾"	2E482	11.70	1 lb.

BOLT-ON WATER HEATER ELEMENT DIMENSIONS AND PRICES

B	1500	120	10¾"	2E491	\$ 8.22	12 oz.
B	750	240	7¾"	2E492	8.18	11 oz.
B	1000	240	7¾"	2E493	8.34	11 oz.
B	1500	240	10¾"	2E494	8.50	11 oz.
B	2000	240	13¾"	2E496	8.72	1 lb.
B	2500	240	9¾"	2E497	9.34	1 lb.
B	3000	240	11½"	2E498	10.14	1 lb.
B	4500	240	13¾"	2E499	11.46	1½ lb.

CYCLING THERMOSTAT

For Electric Water Heaters. 110° to 170°F



Dayton universal replacement thermostats for electric water heaters. Adj. 110° to 170°F. Can be screw or clamp-mounted. UL listed. 3 oz.

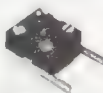
Switch Action	Stock No.	Rating AC 240V 120V	Circuit Opens
Single Pole	2E050	6000W 3000W	On Rise
Double Pole	2E051	6000W 3000W	(f)

(f) Circuit 1, on rise; Circuit 2, on fall; one set on., normally open & closed interlocked contacts.

Switch	Stock No.	EACH
SP	2E050	\$ 11.48
DP	2E051	13.52

HIGH LIMIT CONTROL

For Electric Water Heaters. 190°F



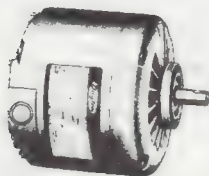
Dayton limit control is accepted as standard for water heater protection. Manual reset. Operating temperature 190° ±5°F. 40 amp 120-240VAC, 25 amp 241-480VAC.

Underwriters Lab. requires use of this type control on all electric water heaters made after October 15, 1964. UL listed. Shpg. wt. 6 oz.

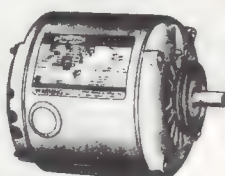
No. 2E104. \$ 10.40

HOT WATER CIRCULATOR PUMP MOTORS

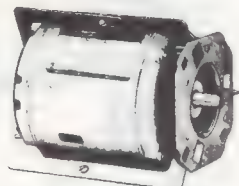
Split Phase Type. 1/12, 1/8 & 1/6 HP, 1725 RPM, 115V, 60Hz. Automatic Reset Thermal Protection



1/12 HP, No. 6K439
Replacement for
TACO pumps



1/12 HP, No. 6K846
Replacement for
THRUSH pumps

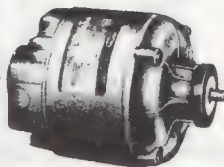


1/8 HP, No. 6K509
Replacement for ARMSTRONG,
TEEL, BELL & GOSSETT pumps

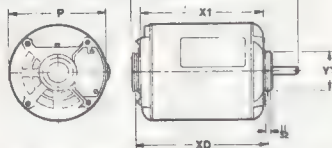
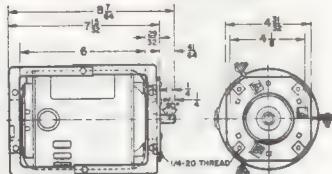


1/6 HP, No. 6K521
Replacement for
BELL & GOSSETT
original cast-iron
bracket pump

1/6 HP, No. 6K864
Replacement for
BELL & GOSSETT
new steel
bracket pump



DIMENSIONS FOR No. 6K509



VARIABLE DIMENSIONS—ALL OTHERS

Stock No.	P	C	X1	XD	YT
6K439	5 1/2"	7 1/4"	5 1/4"	5 3/4"	2 1/4"
6K846	5 1/2"	7 3/8"	5 1/4"	6 1/4"	2 1/2"
6K521	5 3/8"	8 1/2"	7 1/4"	7 1/4"	2 1/2"
6K864	6 1/4"	9 1/8"	6 3/8"	8 1/4"	2 3/4"

Designed for replacement use on 1/12, 1/8 and 1/6 HP hot water circulator pumps made by Bell & Gossett, Armstrong, Teel, Taco and Thrush. Motors are electrically and mechanically comparable to original equipment motors. Split phase type, 1725 RPM 115V, 60 Hz. Open, drip-proof construction. All-angle sleeve bearings. NEMA 48YZ frame. Automatic reset thermal

protection. 40°C ambient, 1.0 and 1.4 service factors, Class A insulation (40° or 50°C rise), continuous duty. Rotation easily reversed by electrical reconnection on all models except No. 6K846 is CCW rotation facing shaft. Recognized by UL for construction (E47479) under the Motor Component Recognition Program. CSA certified. Red or gray finish. Dayton brand.

1/12 to 1/6 HP NEMA 48YZ FRAME MOTORS—HUB RING or BRACKET MOUNT 1725 RPM • 115V, 60 Hz • Sleeve Bearings • 40°C Ambient, Class A Insulation

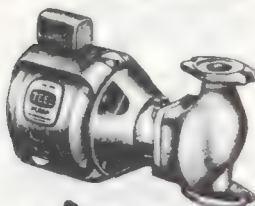
HP	Mounting	Shaft Dia.	Long	Type	For Replacement use on (Pump Manufacturer)	Full-Load Amps at 115V	°C Rise	Service Factor	Rotation	Stock No.	EACH	Shop. Wt.
1/12	Hub Rings	1/2"	1"	Flat	Taco	2.2	40	1.4	Rev	6K439	\$ 74.30	8 1/2
1/12	Hub Rings	1/2"	1 1/4"	Flat	Thrush	2.2	50	1.0	CCW†	6K846	74.30	10
1/8	C-Face Bracket	3/4"	1 1/4"	Rd.**	Bell & Gossett Armstrong, Teel	2.7	50	1.0	Rev	6K509‡	91.24	12
1/8	Hub Rings*	1/2"	3/4"	Flat	Bell & Gossett*	3.5	50	1.0	Rev	6K521‡	90.80	12
1/8	Hub Rings*	1/2"	3/4"	Flat	Bell & Gossett*	3.5	50	1.0	Rev	6K864‡	94.18	13

(*) No. 6K521 has special size hub rings to fit original Bell & Gossett cast-iron bracket. No. 6K864 has special size hub rings to fit new Bell & Gossett steel bracket. (**) Also has set screw seat.

(†) Facing shaft end. (‡) Red finish; all others, gray finish.

TEEL IN-LINE CIRCULATOR PUMPS

8 to 54 GPM. Up to 15 ft. Head. 1/12 and 1/6 HP, 115V, 60 Hz Motors. Cast Iron or Cast Bronze Body



TEEL

**Repair Kit
For Pumps**

Shown Disassembled

Quiet operating Teel water circulating pumps designed for in-line multi-stage zoning applications in hydronic heating and cooling systems. May also be utilized in domestic water pressure systems and OEM equipment requiring circulation of liquids and solar heat applications. For use with nonflammable liquids compatible with pump component materials. Maximum operating pressure 125 PSI, maximum temperature 225°F. Bronze pump has cast bronze body with stamped brass impeller. This pump may be used for booster service in domestic water systems. Cast iron pumps have cast iron body with cadmium plated steel impeller. All models have radially split pump bodies; unit can remain in line during repair or maintenance. Pumps are driven by either 1/12 or 1/6 HP, 1725 RPM, 115V, 60 Hz single phase, resilient mount, sleeve bearings, NEMA 48V frame motors with automatic reset thermal protection. 50°C rise. Flange set included with Nos. 1P901 and 1P902. Pumps are shipped with all necessary bolts and gaskets. For all other models, order flange sets separately from list below. Assembled repair kits available for rebuilding pumps quickly. See separate listing below.

FLOW RATE IN GPM BASED ON MAXIMUM PIPE SIZE

HP	Stock No.	Total Head in Feet															
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1/12	1P899, 1P903	28	25	21	17	11	5	—	—	—	—	—	—	—	—	—	—
1/6	1P900	—	—	—	42	35	35	30	10	—	—	—	—	—	—	—	—
1/6	1P901	—	—	54	50	45	41	36	25	—	—	—	—	—	—	—	—
1/6	1P902	—	—	—	—	—	—	28	21	19	17	15	12	9	—	—	—

HP	Pump Body	Fit Pipe Sizes	Full/Load Amps	—Dimensions—			Stock No.	EACH	Shpg. Wt.
				Face to Face	W	L			
1/12	Cast Iron	3/4, 1, 1 1/4, 1 1/2"	2.8	6 1/2"	5 1/2"	13 1/4"	1P899	\$ 175.13	19
1/12	Bronze	3/4, 1, 1 1/4, 1 1/2"	2.8	6 1/2"	5 1/2"	13 1/4"	1P903	282.70	20
1/6	Cast Iron	1, 1 1/4, 1 1/2"	3.8	8 1/2"	6"	15 1/2"	1P900	357.32	30
1/6	Cast Iron	2	3.8	8 1/2"	6 1/2"	15 1/2"	1P901	316.64	36
1/6	Cast Iron	1	3.8	8 1/2"	6 1/2"	15 1/2"	1P902	354.62	33

(†) Order flange set separately if required, see listing below.

PUMP REPAIR KITS

Fit Teel, Armstrong, and Bell & Gossett Pumps
Listed in Table Below

Kits are completely assembled for fast installation. Units consist of mechanical seal, bearing assembly, impeller, gasket, oil and coupler. Kit for bronze pump has brass impeller, others have cadmium plated steel impellers.

Fits Pump	Stock No.	EACH	Wt.
1P899	1R241	\$ 68.20	3 3/4
1P900, 1P901	1R247	104.70	4
1P902	1R248	157.90	5 1/4
1P903	1R249	89.60	3 3/4

PUMP COUPLING KIT

Hot-water circulator replacement coupling. Designed for use on 1/12 and 1/6 HP Bell & Gossett, Armstrong and Teel pumps. Made of heavy gauge anodized aluminum. Teel brand. Shpg. wt. 5 oz.

No. 1R271. Replacement Coupling. \$ 11.68

PUMP FLANGE SETS

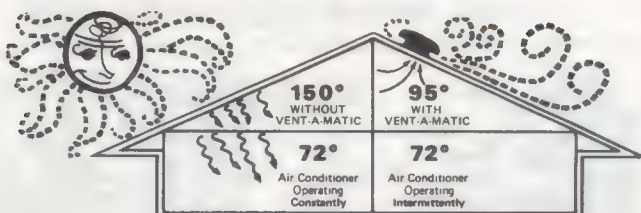
Fit Nos. 1P899, 1P900 and 1P903 Teel and corresponding interchangeable brand pumps. Set includes 2 flanges. Use for mounting pump where original mounting flanges are no longer serviceable or for new installations requiring flanges for the first time.

TEEL FLANGE SET SIZES AND PRICES

Pipe Size	Fit Pump	Flange Material	Set Each
3/4"	1P899	Cast Iron	\$ 9.28
1"	1P899	Cast Iron	9.20
1 1/4"	1P899	Cast Iron	9.20
1 1/2"	1P903	Cast Bronze	26.06
1"	1P903	Cast Bronze	26.06
1 1/4"	1P903	Cast Bronze	26.06
1 1/2"	1P903	Cast Bronze	26.06
1"	1P900	Cast Iron	11.90
1 1/4"	1P900	Cast Iron	11.74
1 1/2"	1P900	Cast Iron	11.68

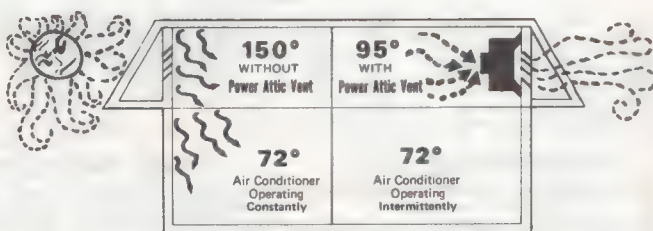
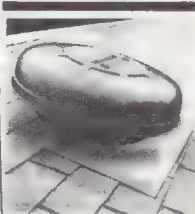
INTERCHANGEABLE PUMP REPLACEMENT DATA—PUMPS AND REPAIR KITS

Armstrong	Bell & Gossett	Taco	Thru	Teel Pump Stock No.	Repair Kits For Teel, Armstrong, B & G Only
S-25	100, 125, 150	110	C-1 1/4	1P899, 1P903 (Bronze)	1R241, 1R249 (Bronze)
S-35	—	120	22 H	1P901	1R247
H-32	1 HV, 1 1/2 HV, 1 1/2 HV	110	HH	1P900	1R247
H-41	1 -PR-	113	TC	1P902	1R248



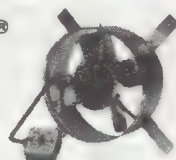
Vent-a-matic

				1 - 5	6+
MODEL	2414	15" Fan	1200 CFM	\$ 86.40	\$ 80.40
MODEL	1012	10" Fan	490 CFM	\$ 78.00	\$ 72.00



POWER ATTIC VENT®

MODEL	2515	12" Fan	1190 CFM	\$ 71.00
MODEL	1818	Automatic Shutter		37.70
MODEL	15:38	Frost Free Control		75.00



DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

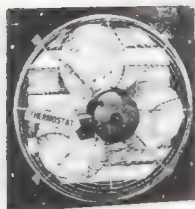


EXPLOSION PROOF EXHAUST FANS

12 to 24" Cast Aluminum Fan Blades. Explosion Proof Motors
Air Deliveries Based on Standard Test Codes of AMCA

Handles all heavy-duty air exhausting jobs in atmospheres containing flammable, explosive vapors or gases. Spray booth usage subject to local code approval. Air deliveries specified below are based on standard test codes of AMCA. Has non-static, cast aluminum fan blade. Powered by 1725 RPM, 115V, 12" Fan 60 Hz totally enclosed, explosion proof, ball bearing, split-phase motor, except No. 4C371 which has 115/230V, 60 Hz, capacitor motor. UL listed. (Class 1, Group D and Class 2, Groups F & G). Built into heavy steel frame with ample mtg. holes. For shutters see Index under Shutters. For belt-driven spray booth fans with 12 to 42" blades, see Index under Fans, Spray Booth. Shipped completely assembled.

Blade Dia.	CFM AIR DELIVERY			Motor HP	Full-Load Amps	Volts 60 Hz	Dia. Opening Required	Stock No.	EACH	
	Free Air	1/8" SP	1/4" SP							
12"	855	645	330	175	1/4	4.5	115	13 1/4"	4C020	\$ 313.14
16	2000	1640	1260	750	1/4	4.5	115	17 1/4"	4C369	330.30
18	2210	1810	1300	800	1/4	4.5	115	19 1/2"	4C370	358.00
20	2475	1860	1350	850	1/4	4.5	115	21 1/4"	2C963	384.30
24	3535	2520	1720	1000	1/3	6.4	115	25 1/4"	2C856	464.00
24	4265	3320	2480	2200	1/2	8.6	115/230	25 1/2"	4C371	522.46



16" AUTOMATIC EXHAUST FAN

Guard Meets OSHA Requirements. Built-in Thermostat. Encl. Motor

Designed to automatically ventilate attics and other closed-in areas in summer—will help reduce load on air conditioners. Thermostat is mounted in junction box and pre-set at factory to turn fan on at 120°F and off at 90°F $\pm 5^\circ$ F. Comes complete mounted on automatic shutter (as illustrated) ready for fast easy installation; or guard-mounted (less shutter) for installation with roof vents with built-in shutter, etc. Shutter requires 17 x 17" opening. Air deliveries are based on AMCA test codes for exhaust systems. Aluminum 3-wing fan blade powered by quiet, 1/20 HP, 1500 RPM, 1.9 amp, 115V, 60 Hz, totally enclosed Dayton fan motor. Shutter is tie-rod type. Fan unit is mounted on heavy, rigid wire guard, zinc lustron plate finish.

Shipped Completely Assembled

Fan Type	CFM AIR DELIVERY		Motor RPM	HP	Full-Load Amps	Opening Required	Stock No.	EACH
	Free Air	1/8" SP						
With Shutter	870	480	1500	1/20	1.9	17x17"	7F667	\$ 153.32
Less Shutter	960	510	1500	1/20	1.9	18 1/4" Dia.	7F666	117.22



RAINTIGHT DISCONNECT SWITCH

For Outdoor Lighting, Air Conditioners, Pumps, Etc.

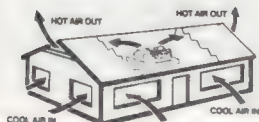
RS2 60NA	Each	5 Lot	10 Lot
Non Fused	\$ 26.40	\$ 24.00	\$ 21.90

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

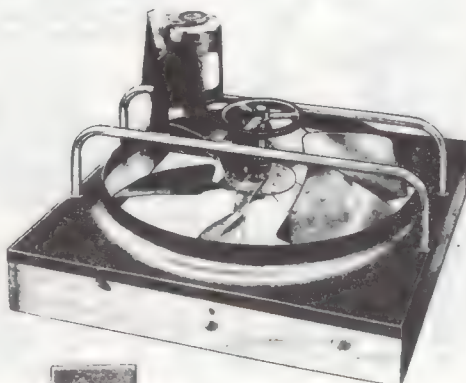
30" ASSEMBLED WHOLE-HOUSE VENTILATING FAN

2-Speed Ball Bearing Motor. Installs in Attic. Delivers up to 7550 CFM
Complete with Wooden Plenum, 2-Speed Switch and 12-Hour Timer

Dayton



Dayton whole-house ventilating fan removes hot, humid air from living areas and draws in cooler outside air. Installs horizontally in ceiling. Unit is fully assembled and is equipped with a 1/3 HP, 2-speed, 1725/1140 RPM, ball bearing, permanently lubricated, split phase, 560/250 watt, resilient mount, 115V, 60 Hz motor. Ball bearing pillow blocks are rubber-cushioned. 18-gauge steel-venturi panel has welded tubular steel supports. Heavy-duty 6-wing fan blade delivers 7550 CFM (free air) and 6500 CFM (0.10" SP). Fan RPM: 485/323. Slow speed CFM is 1/3 less than high speed CFM indicated. Unit comes complete with 1 x 6" wooden plenum and 12 feet of 3/4 x 7/8" adhesive-backed, sponge rubber mounting strip for quiet operation. Includes 2-speed switch and 12-hour timer. Blade has red enamel finish; venturi frame has gray enamel finish. Overall dimensions: 36" L x 36" W x 20" H. UL listed. Shpg. wt. 75 lbs. No. 3C325. Whole-house fan.



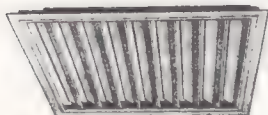
INCLUDES 12-HOUR TIMER
WITH 2-SPEED SWITCH

\$ 431.80

- 1/3 HP, 2-speed, ball bearing, 115V, 60 Hz, split phase motor is permanently lubricated
- Ball-bearing pillow blocks are permanently lubricated
- UL listed
- Air deliveries based on standard test codes of AMCA
- Quiet 6-wing steel fan blade
- Includes wood plenum to simplify installation

CEILING SHUTTERS FOR WHOLE-HOUSE VENTILATING FAN

Install flush in ceiling opening below whole-house ventilating fan. White acrylic enamel finish. Aluminum vanes have felt edges for effective sealing. A tie rod on each side of shutter assures uniform vane opening when fan is on. Vanes have anti-friction pivot pins for fast, minimum-load opening and closing action. Extruded aluminum shutter frame is 1 1/4" deep overall and has 1 1/4" wide mounting flange with ample 3/16" dia. mounting holes.



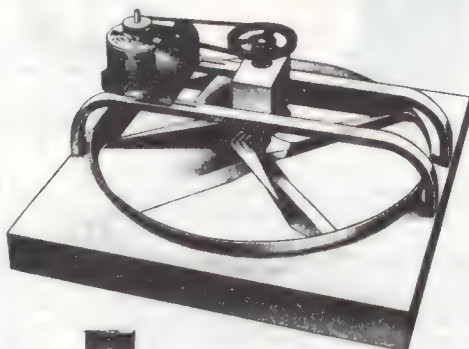
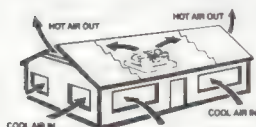
Opening Required	Overall Dimensions	Stock No.	EACH	Shpg. Wt.
30" x 30"	32" x 32"	4C225	\$ 72.62	12
28" x 32"	30" x 34"	4C226	72.62	12
32" x 40"	34" x 42"	4C227	89.44	16

OPTIONAL SHUTTER MOTOR—Relieves starting load on fan motor by automatically opening and closing shutter. 115V, 60 Hz. Shpg. wt. 4 1/2 lbs.

No. 2C904.

24, 30 and 36" WHOLE-HOUSE VENTILATING FANS

Variable-Speed Operation. Install in Attic. Deliver up to 11,400 CFM



**INCLUDES SOLID STATE
VARIABLE SPEED CONTROL**

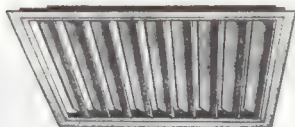
Fasco whole-house ventilating fans are engineered to cool or ventilate an entire home by removing hot, humid air from living areas and drawing in cooler outside air. An economical alternative to air conditioning, whole-house fan operates at a fraction of the cost of central air conditioning. For horizontal installation in attic. Units are fully assembled and equipped with 1050 RPM, permanent split capacitor, 115V, 60 Hz motor. Motor has sleeve bearings, thermal protection, and operates at high efficiency. Ball bearing pillow blocks are permanently lubricated and rubber cushioned. Includes a wall mounted solid state controller to permit vari-

able speed fan operation; variable speed control varies motor RPM and CFM air delivery approximately 30%.

Welded box-beam steel fan housing is rigid and vibration-free. Fan rests on ceiling structure frame, isolated on a thick foam rubber mounting strip; no nails or screws are used to maintain position, thus vibrations are not transmitted to ceiling. Formed and welded 4-wing steel fan blade provides high volume air delivery. Each fan blade is individually balanced for low noise and vibration-free operation. Unit is finished with baked beige enamel applied over phosphate coating. UL listed. Fasco brand.

Blade Dia.	CFM AIR DELIVERY*			Fan RPM*	HP	Watts (Max.)		Amps (Max.)		Dimensions		Mfr. Model	Stock No.	EACH	Shpg. Wt.
	Free Air	0.10" SP	Fan			(Max.)	(Max.)	(Max.)	(Max.)	Sq.	H				
24"	5400	3850	670	1/4	300	3.2	28"	18"	2438LS	3C373				\$ 388.60	55
30"	8150	5800	450	1/4	440	4.3	34	16	3038LS	3C374				415.40	65
36"	11600	8550	365	1/3	550	5.0	40	16	3638LS	3C375				442.20	75

(* Variable speed control varies CFM air delivery and fan RPM approximately 30%.



No 4C226

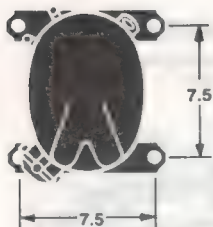
24 to 36" CEILING SHUTTERS

For Use with Above Whole-House Ventilating Fans

Attractive ceiling shutters install in ceiling opening below whole-house fan. Entire unit is finished in white acrylic enamel to blend with white ceiling finish. Aluminum vanes have felt edges for effective sealing when closed. A tie rod on each side of shutter assures uniform vane opening when fan is on, and vanes close automatically when fan is turned off. Vanes have anti-friction pivot pins for fast, minimum-load opening and closing action.

Fan Blade Dia.	Opening Required	Overall Dimensions	Stock No.	EACH	Shpg. Wt.
24"	24" x 24"	26" x 26"	4C224	\$ 61.02	8
30"	30" x 30"	32" x 32"	4C225	72.62	12
36"	36" x 36"	39" x 38"	4C228	89.44	17
24 or 30	28" x 32"	30" x 34"	4C226	72.62	12
30 or 36	32" x 40"	34" x 42"	4C227	89.44	16

OPTIONAL SHUTTER MOTOR—Relieves starting load on fan motor by automatically opening and closing shutter. 115V, 60 Hz. Shpg. wt. 4½ lbs.
No. 2C904. \$ 64.64



Features:

- Full hermetic
- Low vibration level
- Conservative bearing loads
- Internal line break motor protection
- Conservative motor operating temperature
- Internal pressure relief valve
- Heat pump approved

60 HZ 208/230 Volts, Single Phase

MODEL	BTU/H	BTU/WATT HR.	AMPS	VOLTAGE	LRA	SUCTION CONN. (INCHES) I.D.	START CAPAC.		RUN CAPAC.		RELAY PART# RBM, GE	EACH
							μF	VOLTS	μF	VOLTS		
H20B193AB	19,000	8.8	10.1	230	53	.50	88-108	25	370		↑	\$ 319.00
H20B203DB	20,000	8.9	10.7	230	56	.50	88-108	25	370			328.00
H20B243AB	24,000	9.0	9.0	230	68	.50	88-108	35	370		3ARR3-*3P	341.00
H20B283AB	28,400	8.9	14.8	230	79	.625	88-108	35	370		128**6234	395.00
H20A323AB	32,000	9.3	16.4	230	88	.625	88-108	35	370			412.00
H20A403AB	40,000	8.9	21.6	230	107	.750	72-88	35	440		↓	414.00
H21C463AB	46,400	9.6	22.6	230	111	.875	135-155	40	440		3ARR3*4A	679.00
H21C533AB	53,200	9.5	25.3	230	122	.875	135-155	45	440		128**6-287	772.00
H21C513AB	61,000	9.6	27.9	230	149	.875	135-155	55	440			791.00
H21C683AB	68,000	9.2	34.0	230	169	.875	135-155	55	440		↓	845.00
60 HZ 208/230 Volts, Three Phase												
H20A403DB	40,000	9.3	12.5	230	63							504.00
H21C463DB	46,400	10.0	12.6	230	74							713.00
H21C533DB	53,200	10.0	14.5	230	86							778.00
H21C613DB	61,000	10.0	16.8	230	101							831.00
H21C683DB	68,000	9.7	19.3	230	135							887.00

Air Conditioning Compressors



Made in U.S.A.

One year warranty.

Drop in replacement for Tecumseh AT and CAT series compressors.

Replaces Tecumseh, G.E., Copeland, Gibson, Aspera, Danfoss, Necchi, Bendix-Westinghouse. (See cross reference next page.)

7" x 7" mounting centers.

May be used for either **static or fan cooled** (one overload for each application supplied), **resistance or capacitor start** (one relay supplied for both applications).

Motors & Armatures and Kelvinator have combined to meet the demand for a domestically manufactured general replacement compressor. **Two models** are all you need to replace **millions** of compressors now in use. Replaces resistance start, capacitor start, static and fan cooled; **one compressor—four applications**. Wholesalers save on inventory; servicemen make on-the-job replacements.

Packaged with 4 Grommets.

- To replace capacitor-start compressors remove relay jumper per instructions and use capacitor no. 11019.
- Use with either capillary tube or expansion valve systems.
- Use for both low and medium back pressure applications.
- Individually packaged with relay, 2 overloads, overload retainer bracket, terminal cover, terminal cover strap, and complete installation instructions.

CSA (file no. LR 111332) and U.L. (file no. 3450) listed.

M & A NO.	115 V. NOMINAL 50 HZ.		80100	80105
	80100	80105		
Model	A044	A033	\$ 209.90	\$ 220.60
H.P.	1/4	1/3		
Voltage Range	103.5 to 127	103.5 to 127		
Frequency	60 Hz.	60 Hz.		
Capacity (BTUH)	1050	1290		
Capacity (watts)	305	355		
F.L.A.	4.0	4.7		
L.R.A.—CSIR	22.0	28.5		
Motor Speed	3450	3450		
Mounting Centers	7" x 7"	7" x 7"		

THERMAL TIME DELAY RELAY



SPST

M & A PART NO.	HEATER VOLTAGE	NOMINAL DELAY TIMES ¹		CONTACT ARRANGEMENT	EACH
		HEAT (SEC.)	COOL ² (SEC.)		
33001	24	20	85	SPST N.O.	\$ 14.82
33002	24	32	50	SPST N.O.	14.82
33003	24	40	60	SPST N.O.	14.82
33004	24	20	85	DPST N.O.	17.92
33005	24	32	50	DPST N.O.	17.92
33006	24	40	60	DPST N.O.	17.92

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

MICRON-RANGE VACUUM PUMP



New in-line ON-OFF switch.

100% factory inspected and tested.

Economy version has hard baked enamel finish; Deluxe version has rugged molded case with easy to read vacuum gauge.

U.L.-recognized.

Compact and light-weight. Economy version 23 lbs., Deluxe 27 lbs.

Will evacuate to **under 100 microns*** under laboratory conditions; to within less than 0.1 inch of barometric pressure under field conditions.

Pumps to micron range in minutes

M & A PART NO.	VOLTAGE	FREQUENCY	TYPE	EACH
25501	115	60 Hz.	Deluxe	\$ 481.70
25502	115	60 Hz.	Economy	411.40
25503	220/240	50 Hz.	Economy	477.50

DPST MAGNETIC LINE CONTACTORS



M&A NO.	G.E. CAT NO.	COIL VOLT- AGE	F.L.A. AT 240V	L.R.A. AT 240V	RESIS- TIVE AMPS	CONTACT ARRANGE- MENT	EACH
18001	3ARR8 MARS KIT #4	24	25	125	—	DPST N.O.	31.96
18002	3ARR8 MARS KIT #3	120	25	125	—	DPST N.O.	31.96
18003	3ARR8 MARS KIT #2	240	25	125	—	DPST N.O.	31.96
18004	3ARR8 MARS KIT #9	277	25	125	—	DPST N.O.	33.90
18005	3ARR9 MARS KIT #14	24	18	90	25	DPST N.O.	22.50
18006	3ARR9 MARS KIT #13	120	18	90	25	DPST N.O.	22.50
18007	3ARR9 MARS KIT #12	240	18	90	25	DPST N.O.	22.50

COMPLETE MARS- LINE CATALOGS ARE AVAILABLE UPON REQUEST

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND
CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

REFRIGERANT 12 & 22 have been tested and approved by major air conditioning and refrigeration manufacturers for use as both original or replacement charge for their equipment. Precise control at every step in the manufacturing process assures you of a product with the highest purity, extremely low moisture content (less than 10 ppm) and honest weight. REFRIGERANT 12 & 22 consistently surpass the very rigid quality specifications listed for this product.



12 AND 22
in disposable
cylinders. See
chart for sizes.

TYPE	NET POUNDS	CYLINDER DEPOSIT	PRICE PER POUND	EACH
R-11	30#	NONE	\$ 3.14	\$ 94.20
R-12	15#	NONE	3.00	45.20
R-12	30#	NONE	2.44	73.20
R-12	50#	NONE	2.36	118.20
R-22	15#	NONE	4.08	61.20
R-22	30#	NONE	3.56	106.80
R-22	50#	NONE	3.42	171.00
R-502	30#	NONE	5.72	171.60

LEAK DETECTOR (BUBBLES)

Locates high or low pressure leaks of gases and air quickly. Many applications. Just dab around joints or possible leak locations with quality wool dauber fastened to cap of 8 oz. bottle. Penetrating action exposes all types of leaks with easy

to see, telltale bubbles. Ideal viscosity for better coverage and less waste. Not a soap solution. Safe, sure, quick, economical. Two (2) formulas to choose from. "Regular" Bubbles for use above 32 Deg. F. and "Low-Temp" Bubbles for use above and below freezing.

8 oz. Bottle w/dauber \$ 3.36

VACUUM PUMP OIL

This non-additive, paraffinic oil is blended from adjacent neutral oils of highest quality solvent refined base stocks. The inherent stability and low vapor pressure characteristics of the base oils combined with ideal viscosity and excellent sealing properties make this product outstanding for use in high vacuum pumps.

Quart

\$ 7.14

100 Wrot Coupling

With Stop
Copper
to Copper



Nominal Size in inches	Box Quantity	Master Pack	Each
1/8 OD	100	—	\$
3/8 OD	100	—	
1/2	100	—	
3/4 OD	100	—	
1/2	50	—	.14
3/4	50	1200	.56
1/2	100	1200	.22
3/8	50	—	.78
3/4	50	500	.44
7/8	25	—	1.36
1	25	250	.98

101-R Wrot Reducing Coupling

Copper
to Copper



Nominal Size in inches	Box Quantity	Master Pack	Each
3/8 OD x 1/4 OD	—	—	
1/4 OD x 3/8 OD	—	—	
3/8 OD x 1/4 OD	—	—	
1/4 x 3/8	50	—	1.36
3/8 x 1/4	50	—	.54
3/8 x 1/2	50	—	.54
1/2 x 3/8	50	1200	.42
1/2 x 1/4	50	—	.42
1/2 x 1/2	50	—	.42
3/8 x 1/2	25	—	1.06
3/8 x 3/8	25	—	1.06
5/8 x 1/4	50	—	1.06
3/4 x 3/8	50	—	.82
3/4 x 1/2	50	500	.82
3/4 x 3/4	50	—	.82
1 x 3/4	—	—	1.56
1 x 3/8	25	250	1.56

103 Wrot Female Adapter

Copper
to Female
S.P.S.



Nominal Size in inches	Box Quantity	Master Pack	Each
1/2	100	1000	\$ 1.20
3/4	50	500	1.72

104 Wrot Male Adapter

Copper
to Male
S.P.S.



Nominal Size in inches	Box Quantity	Master Pack	Each
1/2	100	1000	.74
3/4	50	500	1.08

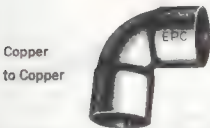
117 Wrot Tube Cap

For
Tube
End



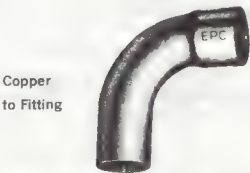
Nominal Size in inches	Box Quantity	Master Pack	Each
1/8	50	—	.26
1/4	50	—	.40
3/8	50	1200	.20
1/2	100	1200	.46
3/4	50	—	.42
1	50	600	

107-C Wrot 90° Elbow - Close Ruff



Nominal Size in inches	Box Quantity	Master Pack	Each
1/8.....	50	—	
1/4.....	50	—	1.16
3/8.....	50	1200	1.18
1/2.....	100	1000	.28
5/8.....	50	—	1.52
3/4.....	50	500	.66
1.....	20	200	1.50
1 1/4.....	25	—	2.80

107-2 Wrot 90° Street Elbow - Long Turn



Nominal Size in inches	Box Quantity	Master Pack	Each
1/8.....	50	—	
1/4.....	50	—	1.38
3/8.....	50	1200	2.84
1/2.....	100	1000	1.72
5/8.....	25	250	2.50
3/4.....	25	250	2.70
1.....	25	—	4.18
1 1/4.....	20	—	7.18

107-R Wrot 90° Reducing Elbow - Long Turn



Nominal Size in inches	Box Quantity	Master Pack	Each
1/4 x 1/8.....	50	—	2.22
3/8 x 1/4.....	50	—	1.44
1/2 x 3/8.....	100	—	1.74
1/2 x 1/4.....	50	—	1.74
3/4 x 1/2.....	50	—	2.48
3/4 x 3/8.....	25	—	2.02
3/4 x 1/4.....	50	500	2.02

106 Wrot 45° Elbow



Nominal Size in inches	Box Quantity	Master Pack	Each
3/8 OD.....	—	—	
1/2.....	50	—	
3/8 OD.....	—	—	
1/4.....	50	—	1.48
3/8.....	50	1200	1.38
1/2.....	100	1000	.68
5/8.....	50	—	1.66
3/4.....	50	500	1.24
1.....	25	250	2.32
1 1/4.....	25	—	3.14

111 Wrot Tee

Copper
to Copper
to Copper



Nominal Size in Inches	Box/ Quantity	Master Pack	EACH
1/8 OD.	—	—	
3/16 OD.	—	—	
1/4	50	1200	
5/16 OD.	—	—	
1/4	50	1200	1.92
3/8	50	600	1.76
1/2	50	500	.44
3/4	25	250	2.78
1	25	250	1.14
1 1/4	10	100	4.26
1 1/2	10	100	6.16

120 Copper Tube Strap

Double Hole



Nominal Size in Inches	Box Quantity	Master Pack	EACH
1/8	100	2400	
1/4	100	2400	.14
3/8	100	2400	.14
1/2	100	1200	.14
3/4	100	—	.14
1	100	1200	.14

braze-it®

Silver Bearing Solder

Cost Per Pound

Braze-It 5	$\frac{1}{4}" \rightarrow \frac{1}{8}"$ Rd./Sq. 3/32" Rd./Sq. .050" x $\frac{1}{8}"$ 1/16" Rd./Sq	\$ 50.52
Braze-It 15	$\frac{1}{4}" \rightarrow \frac{1}{8}"$ Rd./Sq. 3/32" Rd./Sq. .050" x $\frac{1}{8}"$ 1/16" Rd./Sq	124.50

Alloy	Wire Dia.	Pkg. Size	EACH
Braze-It 430	1/8"	1# Spool	54.64

Alloy	Wire Dia.	1 Troy Ounce
Braze-It 45	1/8" & 3/32" 1/16"	\$ 44.66

Brazing Flux

Plastic Container	
1/4 Pound Jar	\$ 2.50
6 Oz. Brush Cap	2.00

COPPER TUBE

REFRIGERATION TUBE

1/4 ----- 3/8 ----- 1/2 ----- 5/8 ----- 3/4 ----- 7/8 -----

WATER TUBE

1/2 ----- 3/4 -----

PRICE IN EFFECT

SOLDER AND FLUX

3108-8 BRAZ-SIL

The most practical and economical silver brazing alloy for copper to copper requiring no flux. Copper to brass—use 3107 Flux. A propriety alloy used by many leading manufacturers in copper to copper brazing. It offers the same handling and flow characteristics as Gemline 3105 and 3115 Silver-Phosphorus Brazing Alloying. 1 lb. tube — .050 x 1/8" x 18" rod.

3160 — LOW-TEMP SOLDER KIT

Low temperature solder developed for applications needing high strength without distortion from excessive heat. Can be used to join stainless steel, copper alloys, steel, nickel, and tin alloys. Joint strength 15,000 PSI. Kit contains 4 feet 1/16" dia. solder and 1/2 oz. bottle of flux.

3161 — LOW-TEMP SOLDER

Low melting point — Flows at 430°. Less than 1/3 the cost of conventional silver solder with sufficient strength for refrigeration applications. Silver Bearing solder offers high strength without base metal distortion. 1 lb. spool — use with 3104 or 3115 Flux.

3145-1, CADMIUM FREE SILVER SOLDER

The favorite silver solder alloy for steel, stainless, copper, nickel, their alloys and other metals. Cadmium Free for safety in confined areas. Solidus 1150°F., Liquidus 1350°F.

1 troy oz. containers — Use with No. 3107 flux.

3146 — FLUX COATED SILVER SOLDER

No. 45 Silver Alloy with blue flux coating. Handy for service work and performs especially well on copper to steel joints.

4 oz. tube — 1/16" x 18" rod.

3105, - 3115 — SILVER-PHOSPHORUS BRAZING ALLOYS

The most popular of all alloys for copper brazing. Copper to copper requires no flux. Copper to brass—use No. 3107 flux. Solidus 1190°F., Liquidus 1300°F. 3105—5% silver, 3115—15% silver.

1 lb. tube — .050 x 1/8" x 18" rod.

3166 — ALUMINUM BRAZING KIT

This versatile aluminum brazing rod may be used on aluminum furniture, food handling equipment, refrigeration units, and many other aluminum articles. Has excellent corrosion resistance and will maintain joint integrity indefinitely. Joint strength up to 30,000 PSI. Very easy to use on both thin and heavy sections.

Kit contains six feet 1/16" dia. brazing rod and 1/2 oz. aluminum brazing flux.

3168 — ALUMINUM SOLDER

This Lo-Temp. product offers easy-quick soldering of aluminum to aluminum when used with 3106 Aluminum flux. It melts at 430°F and flows at 535°F. May be used to join copper-brass and other alloys by using 3104-3116 low temp. flux.

1 lb. spool — 1/6" dia.

3167 — FLUXLESS ALUMINUM RUB-ON SOLDER

For aluminum sheet, tubing, extrusions and for filling holes and cracks at low temperature without the use of a flux working temperature 600°F. Tensile strength up to 42,000 PSI.

1/2 lb. tube — 1/8" x 18" rod.

3104 (4oz.)

\$ 4.20

May be used on all metals other than aluminum and all solder alloys melting under 700°F. Completely self-cleaning on copper, unexcelled for stainless steel.

4 oz. and 16 oz. Plastic Dispenser

Part No.
3104



3106 — ALUMINUM FLUX (4 oz.) \$ 7.40

Facilitates soldering aluminum and aluminum to most other metals including stainless steel.

4 oz. Brush — Cap Dispenser

3107 — SILVER SOLDER FLUX (7oz.) \$ 6.80

Gemline Brazing Flux is chemically active from 800 to 1600°F. For stainless steel, monel, nickel, copper, brass, bronze and other metals.

	Catalog No.	Universal Catalog No.	Tube O.D. in.	Pipe Thd. in.	EACH
	641-F-04	N4-4	1/4		\$ 1.16
	641-F-05	N4-5	5/16		1.34
	641-F-06	N4-6	3/8		1.42
	641-F-08	N4-8	1/2		1.83
	641-F-10	N4-10	5/8		2.78
	641-F-12	N4-12	3/4		4.78
	641-FS-03	NS4-3	3/16		.92
	641-FS-04	NS4-4	1/4		.90
	641-FS-05	NS4-5	5/16		1.00
	641-FS-06	NS4-6	3/8		.98
	641-FS-08	NS4-8	1/2		1.32
	641-FS-10	NS4-10	5/8		1.92
	641-FS-12	NS4-12	3/4		3.44

Male Connector



Catalog No.	Universal Catalog No.	Tube O.D. in.	Pipe Thread in.	EACH
648-F-03x02	U1-3A	3/16	1/8	\$.82
648-F-04x02	U1-4A	1/4	1/8	.74
648-F-04x04	U1-4B	1/4	1/4	1.28
648-F-04x06	U1-4C	1/4	3/8	2.34
648-F-04x08	U1-4D	1/4	1/2	3.12
648-F-05x02	U1-5A	5/16	1/8	1.12
648-F-05x04	U1-5B	5/16	1/4	1.66
648-F-05x06	U1-5C	5/16	3/8	2.02
648-F-06x02	U1-6A	3/8	1/8	1.88
648-F-06x04	U1-6B	3/8	1/4	1.32
648-F-06x06	U1-6C	3/8	3/8	1.96
648-F-06x08	U1-6D	3/8	1/2	2.64
648-F-06x12	U1-6E	3/8	3/4	5.34
648-F-07x04	U1-7B	7/16	1/4	
648-F-08x02	U1-8A	1/2	1/8	2.50
648-F-08x04	U1-8B	1/2	1/4	2.54
648-F-08x06	U1-8C	1/2	3/8	2.02
648-F-08x08	U1-8D	1/2	1/2	2.40
648-F-08x12	U1-8E	1/2	3/4	5.44
648-F-10x04	U1-10B	5/8	1/4	3.88
648-F-10x06	U1-10C	5/8	3/8	3.92
648-F-10x08	U1-10D	5/8	1/2	3.58
648-F-10x12	U1-10E	5/8	3/4	5.84
648-F-12x08	U1-12D	3/4	1/2	5.96

Catalog No.	Universal Catalog No.	Tube O.D. in.	Pipe Thd. in.	EACH
	642-F-02	U2-2	1/8	\$ 1.68
	642-F-03	U2-3	3/16	1.06
	642-F-04	U2-4	1/4	.28
	642-F-05	U2-5	3/16	1.32
	642-F-06	U2-6	3/8	1.80
	642-F-07	U2-7	7/16	
	642-F-08	U2-8	1/2	2.64
	642-F-10	U2-10	5/8	3.82
	642-F-12	U2-12	3/4	6.76

Short Reducing Nut



662-FS-04x03	NRS4-43	1/4x3/16	\$ 1.24
662-FS-05x04	NRS4-54	5/16x1/4	1.26
662-FS-06x04	NRS4-64	3/8x1/4	1.28
662-FS-06x05	NRS4-65	3/8x5/16	1.50
662-FS-08x06	NRS4-86	1/2x3/8	1.56
662-FS-10x08	NRS4-108	5/8x1/2	2.26
662-FS-12x10	NRS4-1210	3/4x5/8	4.18

Copper-to-Copper Brazed Line Tap Valve

Steel pin with core penetrates line and is locked into valve body in one operation, simply by tightening cap.

Catalog Number	For O.D. Tube	EACH
	BOT 1	1
	POT 5/16	5/16
	POT 3/8	3/8
	BOT 1	1
	POT 5/8	5/8
	POT 3/4	3/4
	POT 7/8	7/8
		3.60

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.



PARKER CERAMIC KORE FILTER DRYERS

MODEL NO.		FITTING SIZE	EACH
Flare	Sweat		
032	032S	1/4"	\$ 11.00
052	052S	1/4"	13.70
053	053S	3/8"	13.70
082	082S	1/4"	15.90
083	083S	3/8"	15.90
084	084S	1/2"	16.80
162	162S	1/4"	21.50
163	163S	3/8"	21.60
164	164S	1/2"	23.60
165	165S	5/8"	24.00
303	303S	3/8"	37.00

MODEL NO.		FITTING SIZE	EACH
Flare	Sweat		
304	304S	1/2"	\$ 37.00
305	305S	5/8"	37.00
—	307S	7/8"	38.50
413	—	3/8"	48.50
414	414S	1/2"	48.50
415	415S	5/8"	50.00
—	417S	7/8"	50.00
754	754S	1/2"	50.00
755	755S	5/8"	
756	756S	3/4"	92.00
—	757S	7/8"	94.00
—	759S	1-1/8"	94.00



PARKER SUCTION LINE FILTER DRYERS

MODEL NO.	FITTING SIZE	EACH
SLD8-3V	3/8" Male SAE	\$ 36.00
SLD8-4V	1/2" Male SAE	36.00
SLD8-3SV	3/8" ODF	36.00
SLD8-4SV	1/2" ODF	36.00
SLD13-5V	5/8" Male SAE	36.00

MODEL NO.	FITTING SIZE	EACH
SLD13-5SV	5/8" ODF	\$ 45.50
SLD13-6SV	3/4" ODF	48.20
SLD27-7SV	7/8" ODF	50.20
SLD27-9SV	1-1/8" ODF	62.00
SLD54-11SV	1-3/8" ODF	84.30
SLD54-13SV	1-5/8" ODF	101.80



PARKER SIGHT GLASS MOISTURE INDICATORS

MODEL NO.	FITTING SIZE	EACH
Male SAE Flare x Male SAE Flare		
PSG-2	1/4"	\$ 16.80
PSG-3	3/8"	16.80
PSG-4	1/2"	19.60
PSG-5	5/8"	19.70
Male SAE Flare x Female SAE Flare		
PSG-2MF	1/4"	\$ 16.80
PSG-3MF	3/8"	16.80
PSG-4MF	1/2"	19.60

MODEL NO.	FITTING SIZE	EACH
Sweat x Sweat		
PSG-2S	1/4"	\$ 16.80
PSG-3S	3/8"	16.80
PSG-4S	1/2"	19.60
PSG-5S	5/8"	19.70
PSG-7S	7/8"	27.50
PSG-9S	1-1/8"	29.20

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

PARKER QUIK-LOC UNIONS



PART NO.	FITTING SIZE			EACH
	Solder		O.D.	
	I.D.	O.D.		
QL-201-4-4	1/4"	3/8"	1/4"	\$ 3.10
QL-201-5-5	5/16"	7/16"	5/16"	3.10
QL-201-6-6	3/8"	1/2"	3/8"	3.70
QL-201-8-8	1/2"	5/8"	1/2"	4.00
QL-201-10-10	5/8"	3/4"	5/8"	4.80
QL-201-12-12	3/4"	7/8"	3/4"	7.90
QL-201-14-14	7/8"	1"	7/8"	11.70

PARKER QUIK-LOC FERRULES



PART NO.	FITTING SIZE	PKG
QL-F-4	1/4"	\$ 4.30
QL-F-5	5/16"	4.30
QL-F-6	3/8"	5.50
QL-F-8	1/2"	7.30
QL-F-10	5/8"	6.00
QL-F-12	3/4"	6.60
QL-F-14	7/8"	6.60

PARKER QUIK-LOC 90° ELBOWS



PART NO.	FITTING SIZE	EACH
QL-220-4-4	1/4" x 1/4"	\$ 10.20
QL-220-5-5	5/16" x 5/16"	10.70
QL-220-6-6	3/8" x 3/8"	10.80
QL-220-8-8	1/2" x 1/2"	21.90
QL-220-10-10	5/8" x 5/8"	18.40
QL-220-12-12	3/4" x 3/4"	21.70

PARKER QUIK-LOC SPLICER UNIONS



PART NO.	FITTING SIZE	EACH
QL-210-4-4	1/4" x 1/4"	\$ 6.30
QL-210-5-5	5/16" x 5/16"	6.50
QL-210-6-6	3/8" x 3/8"	10.70
QL-210-8-8	1/2" x 1/2"	21.80
QL-210-10-10	5/8" x 5/8"	15.90
QL-210-12-12	3/4" x 3/4"	16.20

PARKER QUIK-LOC NUTS



PART NO.	FITTING SIZE	PKG
QL-N-4	1/4"	\$ 4.30
QL-N-5	5/16"	4.30
QL-N-6	3/8"	5.50
QL-N-8	1/2"	7.90
QL-N-10	5/8"	6.60
QL-N-12	3/4"	7.10
QL-N-14	7/8"	7.10

SPECIAL-PURPOSE DRYERS

MODEL NO.	FITTING SIZE	EACH
Compact 500	1/4" SAE Male	\$ 9.40
619 Charge-O-Valve	1/4" x Cap.	8.80
620 Charge-O-Valve	5/16" x Cap.	10.90
Little Giant	1/4" x Cap.	6.00
Hercules	5/16" x Cap.	9.00
MMS-180	3/16" 1/4" 5/16" 3/8" 1/2" 5/8" 3/4" O.D.	3.60
MMS-100*	1/4" x 1/4"	3.90
MMS-80†	1/4" x 1/4"	3.60

REPLACEABLE KORE FILTER-DRYERS

[Prices are for Shells Only]



MODEL NO.	FITTING SIZE	EACH
P-485	5/8" ODF	\$ 139.00
P-487	7/8" ODF	139.00
P-489	1-1/8" ODF	142.50
P-4811	1-3/8" ODF	147.30
P-4813	1-5/8" ODF	147.30
P-967	7/8" ODF	162.00
P-969	1-1/8" ODF	162.00
P-9611	1-3/8" ODF	164.00
P-9613	1-5/8" ODF	164.00
P-1449	1-1/8" ODF	206.00
P-14411	1-3/8" ODF	206.00
P-19211	1-3/8" ODF	232.00
P-19213	1-5/8" ODF	232.00

PARKER REPLACEABLE KORE AND FILTER ELEMENTS

MODEL NO.	FITTING SIZE	EACH
PCW-48 (Core Only)	Fits all 4-3/4" O.D. Shells	17.50
PCK-48 (Core Only)	For Liquid and Suction Line	17.50



PARKER AUTOMOTIVE EXPANSION VALVE

MODEL NO.	REFRIGERANT	EACH
307	R-12	35.50



PARKER WIDE RANGE THERMOSTATIC EXPANSION VALVES

MODEL NO.	REFRIGERANT	CAPACITY	TYPE EQUALIZER	EACH
N 2 FW	R-12	1/4 Thru 2 tons	Internal	\$ 35.50
PC 3 FW		1/4 Thru 3 tons	Internal	53.60
PCE 3 FW		1/4 Thru 3 tons	External*	67.90
PSE 3 FW		1/4 Thru 3 tons	External*	71.30
PSE 5 FW		1/4 Thru 5 tons	External*	70.10
N 3RW	R-502	1/4 thru 3 tons	Internal	35.50
PC 4RW		1/4 thru 4 tons	Internal	53.60
PCE 4RW		1/4 thru 4 tons	External*	67.90
PSE 4RW		1/4 thru 4 tons	External*	71.30
PSE 7 1/2 RW		1/4 thru 7 1/2 tons	External*	71.30
N3 H100B	R-22	1/4 thru 3 tons	Internal (Bleed)	35.50
PC 5 HW		1/4 thru 5 tons	Internal	53.60
PCE 5 HW		1/4 thru 5 tons	External*	67.90
PSE 5 HW		1/4 thru 5 tons	External*	71.30
PSE 10 HW		1/4 thru 10 tons	External*	71.30



TELE-SPOUT PRODUCTS

A fast acting penetrant packaged in the handy Tele-spout bottle . . . gets you to the heart of any "frozen" part . . .

It quickly loosens rusted nuts, bolts, screws, shafts, piping, valves, fittings, etc., and has no lingering odor.

Oils those hard-to-reach spots!

The Tele-spout oiler is a "must" for any mechanic who has ever tried to oil an inaccessible spot.

CO-1	Tele-spout oiler	4 oz. bottle with Tele-spout	\$ 2.70
CR-1	R.E.	4 oz. with Tele-spout	2.70

UNBREAKABLE POCKET FLASHLITE AND MAGNIFIER

Magna-Lite is ideal for checking hard-to-read serial numbers and names on compressors and in other areas, where light is poor and numbers are small and almost unreadable to the naked eye.

- Powerful Optical-Quality magnifying lens
- Lightweight, only 1-1/2 oz. complete with batteries
- Penlite batteries easily replaced
- For pocket, tool box, desk or glove compartment
- Handy flashlite for use anywhere
- Made in the U.S.A.

USEFUL FOR READING

- * Dark Restaurants * Road maps and street guides
- * Menus and theater programs * Telephone books
- * Stock market quotations * Fine print anywhere

Model No. ML-100 Magna-Lite Weight: 1-1/2 oz.

\$ 9.00

LIQUID LEAK DETECTOR WITH BRUSH-ON APPLICATOR

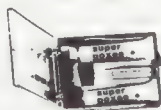
Specially formulated for refrigeration and air conditioning systems.

Seeks and finds refrigerant & air leaks quickly and safely. Actually pin-points the leak when applied to the suspected area. Leak-Finder has body and will never fail to bubble at even the slightest leak.

Leak-Finder is non toxic, will not stain and meets Mil Spec. MIL-L-25567A for oxygen and compressed gases. Ideal for automotive air conditioners where flame type detectors could be hazardous. Leak-Finder also makes a perfect companion to electronic leak detectors in helping to accurately pin-point the leak.

Model CL-1 4 fl. ozs. Weight 6 ozs. .

CL-8 \$ 4.50



ALL PURPOSE REPAIR KIT

SETS IN 7-10 MINUTES

Ideal for Sealing Aluminum, Copper and Stainless Steel Evaporator Leaks, Without Heat.

Super Poxas is a rapid set, fast cure, all purpose epoxy, that sets in an initial cure in only 7-10 minutes. Within 30 minutes, patched sections have shear strength in excess of 2000 pounds per square inch and refrigeration systems can be recharged within 1 hour after repair.

GP-1 \$ 6.50

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

The New, Convenient Way to Straighten and Clean Condenser and Evaporator Fins.

Fin-Tool features a nylon master handle and 6 nylon injector type heads. Each head slides into the master handle and tightens in place. The heads are designed to fit units with fin spacing of 4 through 14 fins per inch. Each head is engraved with its own size and is color coded for fast identification.

Eliminates Knuckle Scraping

The heads are angled so that when inserted in the handle, the hand is a safe distance from the sharp fins. Fin-Tool heads may also be reversed in the handle, so that combing with an upward stroke (recommended method) may be done easily, with proper leverage.

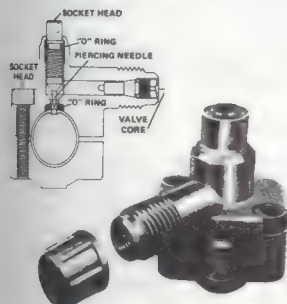
Convenient to Hold Handle

The master handle rests comfortably in a man-size grip, is rigid and long lasting.



T-100 W/6 HEADS

\$ 9.50



ADJUSTABLE LINE TAP VALVE

Quik-Tap is a clamp-on valve using two socket head screws. Piercing is done with a socket head needle. One hex key, included with the valve, fits both screws and the needle.

FEATURES:

- * Optional Servicing—use with or without the valve core.
- * Retractable Needle—Leaves line free of restriction
- * Sealed with "O" Rings—Withstands all refrigerants
- * Full unrestricted flow—When servicing without valve core
- * Valve core can be changed without refrigerant loss and without special tools
- * Needle cannot be backed out of valve
- * One hex key fits needle & screws

Model QT-1 1/4", 5/16", 3/8" O.D. tube \$ 5.00

Model QT-2 1/2", 5/8" O.D. tube 5.20



A Super Strength Double Sided Tape For Mounting Air Conditioning Controls And For Hundreds Of Other Uses.

Eliminates Screws, Drilling, Nails

Just 1 square inch holds one pound.

Mounts anything to anything. Adheres instantly to: Metal, Wood, Plastic, Tile, Plaster, Cement, Glass.

The Longer It's On, The Stronger It Gets.

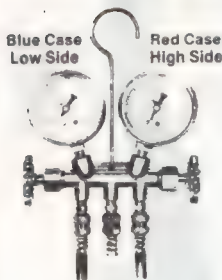
Model No. AT-16 3/4" wide x 3' long x 1/16" thick \$ 3.90

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

CHARGING AND TESTING MANIFOLDS

ROBINAIR

Standard color coded and polished or chrome



40153

The ideal unit for testing, evacuating, recharging or setting controls. Available with standard 2 1/2" diameter color coded gauges, with POLISHED BRASS gauges or POLISHED CHROME. Gauges have restriction screw, front recalibrator and temperature scale for Refrigerant 12, 22 and 502. Compound gauge (blue case) has 30" vacuum to 120 P.S.I. with retard to 250 lbs. Pressure gauge (red case) has 0 to 500 P.S.I. range. 1/8" FPT gauge connections; other connections are 1/4" S.A.E. male flare.

- All brass forged body, compact, lightweight yet designed for rugged use.
- Special stem seats and double "O" ring seals provide positive leakproof shut-off.
- Stem seats, "O" rings and flare connections can be replaced.
- Machined for maximum flow, with only 2 1/2 turns of hand wheel.

STANDARD:

- 40130 Manifold bar only with wheels \$ 28.40
 40146 Manifold bar, with color coded gauges and wheels (40147 metric) \$ 55.80
 40152 Same as 40146 but with hook and hose holder \$ 59.20
 40153 Manifold bar, complete with hook, hose holder, color coded gauges and color coded 36" hoses (40154 metric) \$ 87.30
 40156 Same as 40153 except packed in plastic carrying box \$ 101.10
 40155 Same as 40153 except 72" white hose \$ 95.10

POLISHED BRASS:

- 40137 Deluxe brass manifold bar only with wheels N/A
 40164 Deluxe brass manifold bar with wheels and polished brass gauges \$ 84.40
 40165 Deluxe brass manifold bar, complete with hook, hose holder, polished brass gauges and color coded 36" hoses, packed in plastic carrying case \$120.60



Heat pump manifold

14695

\$ 136.10

Designed specifically for servicing heat pumps that require a third gauge for direct pressure check of the switching assembly. Manifold is complete with 1 compound gauge, 2 high pressure gauges, hoses, hook and hose holder, front-mounted handwheels.

"Duo-test" charging hoses 1/4" S.A.E.

QUALITY FEATURES INCLUDE:

- All brass barb and ferrule. Long quick coupler nut for easy finger tightening.
- Improved quality rubber covered hose is extremely flexible, and impervious to common refrigerants. Has a maximum working pressure of 500 P.S.I. and average burst pressure of 2000 P.S.I.
- Moulded gasket is easy to replace but won't pop out. Free swivelling Quick Coupler eliminates binding or kinking of hose when tightening.
- Valve depressor furnished in elbow end of all 1/4" lines. Can be easily removed if not required or for replacement.
- New 45° bend on barb.

Color Coded Sets: Color coding eliminates line tracing during testing, evacuation or recharging. Speeds up service work, cuts costs. Packaged in sets in dust-proof polyethylene bags. Each hose has valve depressor in elbow end.

3-Way Color Coded Sets:

- 40035 Consists of 3 36-inch quality rubber covered lines. \$ 29.50
 40057 Three 60-inch color coded hoses \$ 39.50

4-Way Color Coded Sets: For use with 4-way Testing Units

- 40036 Four 36-inch color coded hoses \$ 39.40

**SINGLE
HOSES**

ROBINAIR®

Dial-a-charge® charging cylinders

Duplicate factory accuracy when recharging systems in the field

Dial-A-Charge Charging Cylinders permit the serviceman to easily compensate for volume fluctuations resulting from temperature variations. They allow the serviceman to buy refrigerant in economical drums and provide accuracy in recharging eliminating over and under charging which might require call backs.

These cylinders are provided with heating elements. The use of the cylinders with the heating element allows the serviceman to overcome equalization of pressure between the system and the charging cylinder and reduce time required to recharge.

Cylinders with heating elements eliminate the need to warm with a heating blanket, or immerse the cylinder in a container of hot water or heat the base with a torch.

Simply "dial" the calibrated plastic shroud so the pressure heading at the top of the shroud corresponds to the gauge reading and the cylinder is ready to charge. Cylinders have shut-off valves with Teflon seats for finger tip control in charging systems to factory specifications, and are accurate to 1/4 oz. of refrigerant when charging system.



43678
(Heated)
(5 lbs.)

Part No.	Capacity	Height	Weight	R-114	R-12	R-22	R-502	Increment Calibrations	Accuracy	EACH
43299	2.5 Lbs.	27.5 In.	12 Lbs.	Yes	Yes	Yes		1/4 Oz.	± 1/4 Oz.	\$ 237.60
43678	5 Lbs.	27.5 In.	15 Lbs.		Yes	Yes	Yes	1/2 Oz.	± 1/4 Oz.	267.10
43808	10 Lbs.	27.5 In.	18 Lbs.		Yes	Yes	Yes	1 Oz.	± 1/4 Oz.	330.70
44903	5 Lbs.	27.5 In.	15 Lbs.				Yes	1/2 Oz.	± 1/4 Oz.	267.10

USES:

Fast freezer and coil defrosting • Speed heating and drying of materials • Fast curing and drying of epoxies • Applying shrink tubing • Softening and bending tubing • Speed drying of touch-up paint to eliminate "haze" • Drying out condensation in motors, clutches, controls, etc. • Drying parts after washing • Loosening rusted bolts • Thawing frozen pipes.



Heat gun

14450

\$ 167.40

500°-750° F.

For safe, instant, electric heat...

ROBINAIR

RESIDENTIAL

COMMERCIAL

INDUSTRIAL

Water manometer

12375 Water manometer (8" scale)	\$ 21.30
12376 Water manometer (12" scale)	28.90
12377 Water manometer (16" scale)	37.50
43451 Hose	\$ 3.70
43452 Connector	1.80

These manometers have many uses, but are primarily intended for checking supply pressures to gas appliances and furnaces. The 43451 hose and 43452 connector fit all three manometers.

12375



Quick coupler valve opener type



\$ 5.70

\$ 5.70

Thermometer



Handy, accurate 1" dial thermometer with 5" stem is a must for determining discharge duct temperatures during diagnosis and after recharging. Accuracy $\pm 1\%$. Furnished with shock resistant carrying tube with convenient pocket clip.

10596 -40° to $+160^{\circ}$ F.

\$ 19.10

10597 0° to $+220^{\circ}$ F.

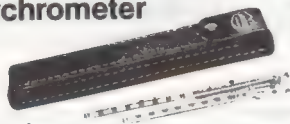
19.10

Chrome plated valve core remover with 6 valve cores

40536 \$ 7.50



Weksler sling psychrometer



12149

\$ 69.20

Used to determine relative humidity. Has quality mercury thermometers with magnifying lenses. Leatherette case and complete instructions included.

Compressor oil pump

14388 \$ 104.10

Mounts in one gallon metal refrigeration oil container and pumps oil directly into the refrigeration system while under charge.

Heavy knurled cap with three rubber inserts will adapt to all one gallon refrigeration oil cans. When connected to a system, oil can be pumped with system pressures up to 250-300 pounds while pumping $2\frac{1}{2}$ ounces per stroke. System does not need evacuation to introduce compressor oil. No need to remove pump from can after each use. Refer to Price List for replacement adapters.

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.



LIQUID SCALE REMOVER NO. 2



For use in cooling tower systems, boilers, water coolers, evaporative condensers, direct heater units, air compressor jackets, refrigeration condensers, diesel and gasoline engine jackets, water cooled electric welders, water cooled transformers, water piping, etc. This fast acting, full strength, hydrochloric acid based cleaner contains exclusive inhibitors to protect metals including galvanized, aluminum, copper, brass, steel and iron. It has controlled foaming action and can be added directly to water recirculating system. Top scale dissolving capacity. One gallon dissolves about 3 pounds of lime scale. "Tel-Action" pH indicator strips supplied with each container.

1 Gal. Plastic Bottle \$ 11.22

SAFETY DEGREASER SOLVENT

(Contains No Carbon Tetrachloride)

A special blend of chlorinated hydrocarbon and petroleum solvents to give an economical, efficient metal cleaner and degreaser. Safe to use relative to carbon tetrachloride. High dielectric. High flash point. Dries clean. Dissolves grease, grime, oils, waxes, gums, tars, etc. Non-corrosive to metals.

1 Gallon 18.94

TRIGGER SPRAYER

A reliable sprayer with a 16 oz. high impact plastic bottle. This sprayer is ideally suited for applying "Vapco All Purpose Cleaner", and many other liquids. It is not recommended for paint or liquids which harden or congeal, or petroleum cleaning fluids. Nozzle is adjustable to obtain desired spray pattern and removable to facilitate cleaning.



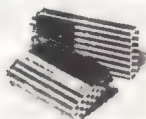
General Purpose Sprayer w/16 oz bottle 4.86

Jumbo Trigger Sprayer w/40 oz bottle 11.58

6 inch extension (for Jumbo Sprayer)

BRITE' ALUM

Fin/Coil Cleaner and Brightener



Unlike ordinary cleaners, this unique product removes oxides and scale incrustation in addition to normal soil. Aluminum surfaces are left bright and smooth with a like new appearance. Original heat transfer capabilities are restored resulting in improved efficiency and reduced power costs. For badly oxidized surfaces, use full strength or dilute with 1 to 2 parts water. Dilute with up to 10 parts water for frequently cleaned surfaces. Vapco Brite' Alum was developed specifically for air conditioning and refrigeration systems but its properties suggest many other uses. For example, cleaning truck trailers, travel trailers, mobile homes, etc. Also to clean aluminum before soldering or welding and as a remover for rust stains on concrete. Non-flammable liquid — leaves no corrosive residue.

1 Gallon 17.94

5 Gallon Pail 88.80

NO-SWEAT INSULATION

(Insulation In A Can!)

A unique spray on insulation that stops sweating and dripping of cold water pipes, refrigeration lines, duct work and other cold surfaces. No Sweat readily adheres to most surfaces and dries quickly to a durable white finish. The coating is filled with millions of tiny air cells which prevent moist air from contacting cold surfaces. It is easily applied to odd shaped fittings and hard-to-reach areas. Thickness of coat may be varied as required. No Sweat is convenient to use, easy to carry and economical when used as directed. One eighteen ounce can of No Sweat will insulate approximately ten feet of one inch water pipe with two coats when applied as directed. On flat surfaces, one can will cover approximately eight square feet with two coats. No Sweat should be at or above room temperature for proper application. If stored in a cold ambient temperature, the can should be gently warmed before using. No Sweat should always be at a higher temperature than the surface being insulated.



18 oz. Aerosol Can 9.42

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

tif INSTRUMENTS

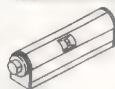
TIF5000 Automatic Halogen Leak Detector



Price Includes: \$ 259.00

Earphone, Extra Sensing Tip, Tip Protector, Leak Source, 6 Filter Cloths, 2 "C" Cell Batteries & Carrying Case

VA105 Volume-Aire Air Balancer



Price Includes:
Carrying Case

\$ 259.90

* **TIF5500 Micropump™** Automatic Halogen Leak Detector



Price Includes: \$ 319.90

Micropump™, Extra Air-Cooled Sensing Tip, Earphone, Tip Protector, Leak Source
6 Filters, 2 "C" Cell Batteries & Carrying Case

TIF900 Capacitor Tester



Price Includes: \$ 41.90
One Size 9 V Battery & Carrying Case

* **TIF4000** Electronic Sight Glass



Price Includes: \$ 379.90

Matched Set of "C" Shaped Sensors, Service Hook, One 9 Volt Battery & Carrying Case

* **TIF9000** Electronic Charging Meter



Price Includes: \$ 499.90
One 9 V Battery & Heavy-duty Carrying Case

* **TIF2000 Wattprobe™** Hand-Held Digital Kilowatt/Watt Meter



TIF2000
Price Includes: \$ 578.00

One 9 V Battery, Two External Volts Probes, Two Alligator Clips, Replacement Fuse & Carrying Case

TIF300CC AC Voltage Detector Continuity Capacitor Checker



Price Includes: \$ 79.90
Test Leads, 2 Size AA Batteries & Carrying Case

tif INSTRUMENTS

*TIF8800

Combustible Gas Detector
(New, improved
replacement for
CGD880 Combustible
Gas Detector)

Price includes: \$ 299.00

Sensing Tip, Four 1/2 C" Ni-Cad Batteries, Carrying Case & Battery Recharger



TIF1250

AC Clamp-on
Volt-Ohm-Ammeter

\$ 179.00



Price includes:

Fixed Probe, Fused Probe, Replacement Fuse, 4 AAA Batteries & Carrying Case

TIF1000

AC Digital Clamp-on
Volt-Ohm-Ammeter

Price includes:

Fixed Probe, Fused Probe, Replacement Fuse, 4 AA Batteries & Carrying Case

\$ 338.00



POCKET THERMOMETERS

PLASTIC CASE CLEAR, PERMANENT MARKINGS CAN'T WEAR OFF • MADE IN U.S.A.



Catalog No.	Range
RED LIQUID SPPT-2 SPPT-3	-30 to 120°F -50 to 120°F
	\$ 5.82

1" DIAL ADJUSTABLE, STAINLESS
STEEL, PLASTIC CASE • ±1% ACCURACY
• MADE IN U.S.A.

Catalog No.	Range	EACH
D-4011	-40 to 160°F	\$ 15.12
D-4012	-40 to 120°F	
D-4014	50 to 550°F	

1" DIAL ECONOTHERM • ADJUSTABLE,
STAINLESS STEEL, PLASTIC CASE • ±2%
ACCURACY • MADE IN U.S.A.

ET-120	-40 to 120°F	\$ 12.34
ET-160	-40 to 160°F	

OVEN THERMOMETER

Stainless Steel case, hang or stand.
Range: 100 to 600°F

Made in U.S.A.

OV-1
\$ 6.04

SLING PSYCHROMETER

Pocket type in leather case,
Range 30 to 110°F. Complete
with slide rule humidity calculator.

Made in U.S.A.

\$35.74
PSP-2



AMPROBE® ROTARY SCALE MODELS

Their compactness, versatility and wide range of measuring capability have made these units the most widely used clamp-on instruments available. Applications include checking running currents, balancing circuits, checking for overloads, checking voltage and with models noted checking resistance and continuity.

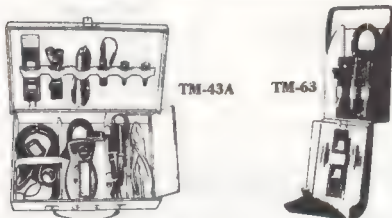


Feature multi-range capability for greater measurement flexibility and reading accuracy. Fit either hand comfortably, permitting one hand operation of jaw trigger, pointer lock and rotary scale selector. Pointer lock "freezes" pointer at reading. Only selected voltage or current scale (plus ohmmeter scale on units with ohmmeter) is visible at one time in the unbreakable, magnifying window. Accuracy $\pm 3\%$ F.S. (based on sinusoidal waveform).

MODEL	VOLTS, AC	RANGES	AMPS, AC	
† RS-1A	0-150/600	0-6/15/40/100	\$ 123.70	
† RS-2A	0-150/300	0-6/15/40/100	139.70	
† RS-3A*	0-150/300/600	0-6/15/40/100/300	173.70	
† RS-300A	0-150/300/600	0-6/15/40/100/300	165.70	

Price includes VLK-311R Extendo Leads and "A" Case

AMPROBE® TEST MASTER KITS



Choice of models lets you select the "electrical test shop in a kit" to meet your specific testing requirements. All kits (except TM-60) are built around the famous model RS-3A with Extendo leads.

CONTAINS:	RS-3A	Extendo Leads	PSA-1	Ener-gizer	Decca Tran	A Case	U Case	
TM-33A	one	one	—	one	one	—	one	\$ 305.70
TM-43A	one	one	one	one	one	—	one	339.70
TM-60	—	one	—	one	—	one	—	55.00
TM-63	one	one	—	one	—	one	—	197.70

AMPROBE® MULTIMETERS

Not just VOM's, but instruments designed for industrial use.

Model AM-3 Features —

All ranges are fuse-protected or can withstand application of 220 volts for 1/2 minute; mirror scale; easy-to-read, three color coded scale plate/switch plate; high-impact, fully insulated, molded case; self-locking meter-stand handle; recessed window. Ranges: 0-30/150/300/750 VAC (10K ohms/V); 0-3/30/150/300 VDC (100K ohms/V); 0-500 (5 ohms midscale) 0-5K (50 ohms midscale); 0-50K (500 ohms midscale); 0-5M (50K ohms midscale); 0-10uADC at 750MV, 0-15/150uADC at 300MV, 0-1.5/150MA DC at 300MV, 0-5/25/100/250 Amps AC with A603 60Hz Current Transducer (not supplied), 0-10/50/250/500 Amps AC with A703 60Hz (not supplied); 0-75/300/750/1500MV DC at 10uA; +70°F to 1200°F with TC-3 Thermocouple, not supplied, -10 to +250°F with Thermometer Probe RBT-12, not supplied. Accuracy $\pm 3\%$ F.S. DC; $\pm 4\%$ F.S. VAC; $\pm 5\%$ F.S. Amps AC based on sinusoidal waveform; Ohmmeter $\pm 3\%$ of Arc; Temperature Low $\pm 3\%$ of ARC including probe; High $\pm 3\%$ F.S. including probe. Uses 2 "C" batteries in parallel. Supplied with Test Leads.



AM-3

Made in Japan to Ampprobe Instrument design & quality specifications

AM-3 159.70

AMPROBE® JUNIOR MODELS

These pocket-size instruments are available in a variety of voltage, current and resistance range combinations. This permits you to select the model that will satisfy your immediate job requirements. Readings are taken on a calibrated scale. Accuracy $\pm 3\%$ F.S.* Junior model instruments are smaller and weigh less than most popular voltage testers. *Based on sinusoidal waveform



Model	Volts, AC	Ranges	Amps, AC	
Y500	0-150/600	0-100	\$ 65.50	
Y550	0-150/600	0-50	65.50	
Y0500*	0-150/600	0-100	80.50	
Y0525*	0-150/600	0-25	80.50	
Y0550*	0-150/600	0-50	65.50	
YT25/100	0-150/300	0-25/100	80.50	
YT525/100	0-150/600	0-25/100	80.50	
YTBT25/100	0-150/300	0-25/100	80.50	
YT0525/100*	0-150/600	0-25/100	80.50	
TM Y0500*	0-150/600	0-100	109.70	
TM Y0525*	0-150/600	0-25	109.70	
TM Y0550*	0-150/600	0-50	109.70	



*Has 25 ohm midscale ohmmeter
YTB models supplied with "B" case and VLK-355R leads
Replacement "B" \$ 15.70
TMYO models supplied with "K" case and VL-55R leads.
Replacement "K" case \$15.90
All other models supplied with VL-55R leads.

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

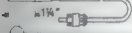
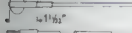
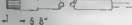
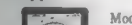
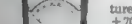
AMPROBE® FASTEMP® THERMOMETERS AND TMVO



Thermometers measure temperatures in seconds. Accommodate 3 probes that can be checked in quick succession by means of a selector switch. Supplied with one Universal Probe model RBT-12 for non-corrosive applications. Also available are Immersion and Air Probes and a carrying case.

MODEL	RANGES	
T-150	-50° to + 50°F/+40° to +150°F	\$ 127.00
T-150C	-45° to + 10°C/ 6° to +65°C	127.00
T-151	+10° to +110°F/+100° to +250°F	127.00
T-151C	-12° to + 43°C/+ 38° to +120°C	127.00

Accuracy: $\pm 2\%$ of span. Weighs only 10 ozs. $4\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$ "
RBTX 15ft Extension Lead Add up to 3 per probe for total lead length of 60 feet.

	RBT-11 Immersion Probe	27.00
	RBT-12 Universal Probe	27.00
	RBT-13 Air Probe	27.00
	FTC Carrying Case	29.70
	915 Set of 4 "AA" batteries	2.90



Model T-152 TMVO — Measures temperature, millivolts and resistance. Ranges: +70°F to +1200°F/+30°C to +640°C; 0-50/1000 millivolts; 0-200/2K ohms (5/50 ohms midscale).

Supplied with TC-1 thermocouple lead, millivolt ohm leads, clip adaptor and carrying case. **\$ 159.70**

TC-5 Disposable Thermocouple (package of 2) **26.50**

AMPROBE® VOLTPROBE® VOLTAGE TESTER

Compact, lightweight design makes these virtually the only voltage testers that fit in a shirt pocket. Voltage levels are shown "Thermometer Style" by a series of "LIT" windows corresponding to each voltage level. Visual readout ends guesswork and wrong interpretation. Frequency range 25-800Hz. Model VC carrying case optional.



VC Case
\$ 9.00

MODEL NO.	VOLTS, AC	RANGES	VOLTS, DC	
VT-100	115/220/277/ 440/550		115/220/400/ 600/750	\$ 25.90
VT-124	24/48/115/220/ 277/440/550		115/220/400/ 600/750	39.00

AMPROBE® MEGOHMMETERS

Designed to measure the high resistance of conductor and motor insulation. Instruments also have a sensitive ohm range to check continuity and the low resistance of motor windings and relay coils. Two models are available.

Model AMB-1 is battery-powered. Model AMC-2 is powered by a hand-cranked generator. Model AMB-1 has a 0-100 megohm range (2.5M Ω midscale), a 0-100 ohm range (4 Ω midscale), a 0-600VAC test band and a Battery OK test band. Power is supplied by 8 "AA" batteries, not included. Supplied with ever-ready carrying case, test leads, adaptor clips, and a comprehensive operations manual.

Model AMC-2 features a 0-100 megohm range (1M Ω midscale), a 0-200 ohm range (10 Ω midscale), a guard terminal to eliminate surface leakage current influences, spring-loaded terminal connections and a constant voltage generator with a smooth operating crank. Supplied with comprehensive operations manual, three piece test lead set (2 clip type, 1 probe type), and two part carrying case.

ACCURACY: Model AMB-1: $\pm 5\%$ of reading from 0.1 to 10 megohms; $\pm 10\%$ of reading over 10 megohms; $\pm 3\%$ of arc on ohmmeter range. Model AMC-2: $\pm 5\%$ of reading from 0.1 to 50 megohms; $\pm 10\%$ above 50 megohms; $\pm 10\%$ of reading on ohmmeter range.



AMB-1

AMC-2

AMB-1 \$ 329.70 AMC-2 \$ 519.90

AMPROBE® STRIP CHART RECORDERS



Make every manhour count. Put these economical recorders to work for you. They will monitor voltage, current and temperature conditions that affect the operation and life of expensive equipment. Free you to do other work. Can also help eliminate costly equipment downtime. Aid in doing survey work prior to submitting quotations. Written record helps sell your customer, too.

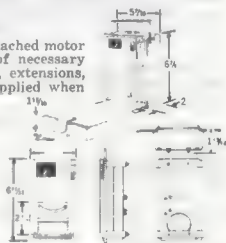
PORTABLE CASED MODELS

Supplied with permanently attached motor line cord and one roll each of necessary strip charts. Meter line cord, extensions, adaptors, transducers, etc. supplied when indicated.

FLUSH-MOUNTING MODELS

Supplied with one roll each of necessary strip charts and mounting hardware. Transducers, probes, etc. supplied when indicated. Motor leads not furnished.

Recommended Panel Opening:
Size: $3\frac{1}{2} \times 6\frac{1}{2}$ "

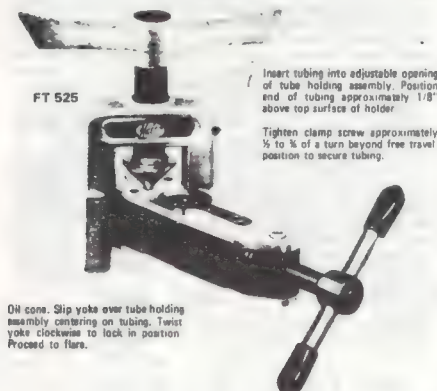


Prices available upon request

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

UNIVERSAL METRIC/INCH

"Gripper" Flaring Tool



ADJUSTABLE SINGLE OPENING HOLDS SIZES 3/16 to 5/8" O.D. (5 to 16 mm O.D.) For soft copper, aluminum and brass tubing. The "Gripper" has a unique self-adjusting single opening that adjusts to and holds any size tubing within the range of 3/16 thru 5/8" O.D. Faceted, hard chrome finished cone rolls out and burnishes perfect 45° flare. Original wall thickness is maintained at base of flare. Self centering slip on yoke permits use in tight places. Extra leverage large handle and precision threads on feed screw make flaring almost effortless. Satin chrome and black nickel finish add to tool life and clean, professional appearance.

Catalog Number	Tubing O.D.	Flare	EACH
FT 525	3/16" to 5/8" (5-16MM)	45°	\$ 96.12

Pinch-Off Tool

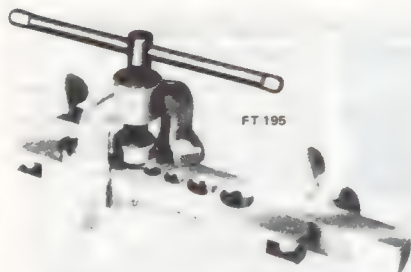


Temporarily closes off soft copper, aluminum or steel tubing so no liquid or gas passes sealed part. Disconnect line while making repairs without loss of liquid or gas. Also use tool to reopen tubing and round back to shape.

Catalog Number	Tubing O.D.	EACH
PT 105	1/4, 3/8, 1/2"	\$ 35.86

BAR CLAMP-TYPE

Flaring Tool

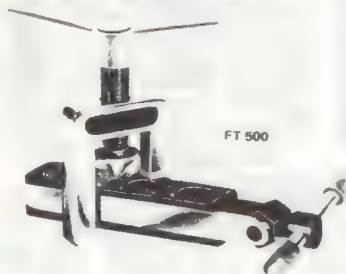


Flares 7 sizes of soft copper, aluminum and brass tubing. Forged steel slip-on yoke and hardened flaring bar. Yoke design permits flaring where there is little space between nut and tube end. Positive clamping of bars prevents tube slippage. Hard chrome-finished slip cone makes better flares with less effort. Satin finish nickel-chrome plated.

Catalog Number	Tubing O.D.	Nom. Size	EACH
FT 195	3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8"	1/8, 1/4, 3/8, 1/2"	\$ 47.48

DIE BLOCK-TYPE

Flaring Tool



For soft copper, aluminum and brass tubing. Faceted, hand chrome finished cone rolls out perfect 45° flares above die block—then automatically burnishes flare face. Handy slip-on yoke permits use in tight quarters. Movable dies allow tubing to be slipped in easily. Heat treated dies grip tubing without scoring and the original tube wall thickness is maintained at base of flare. Large flat handle. Precision threads. Satin chrome and black nickel finish.

Catalog Number	Tubing O.D.	Nom. Size	EACH
FT 500	3/16, 1/4, 5/16, 3/8, 1/2, 5/8"	1/8, 1/4, 3/8, 1/2"	\$ 96.12

"Imp" Tube Cutter



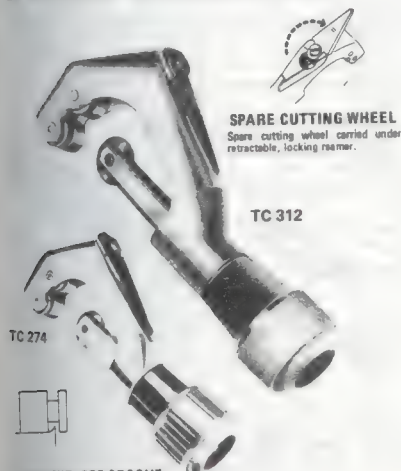
Tubing pivots on rollers

A handy tube cutter for cramped spaces so often encountered on installations or repairs. Only 1-11/16 x 1-15/16 x 7/8". Weighs only 2 1/2 oz. A mere 1/16" clearance is all that is needed to operate the "Imp".

Catalog Number	Tubing O.D.	EACH
TC 127	1/8 to 5/8" (4-15 mm)	\$ 16.00

HEAVY DUTY

Tube Cutters



SPARE CUTTING WHEEL
Spare cutting wheel carried under retractable, locking reamer.

TC 312

TC 274



FLARE CUT-OFF GROOVE

Flare roller reduces tube loss and reduces flare is removed

For hard or soft copper, aluminum, brass, thin wall steel, stainless steel, monel, titanium and other tubing. Makes clean, right-angle cuts with no burrs or chips to clog tubing. Features ball bearing feed, flare cut-off groove, retractable reamer and spare cutting wheel. Rugged aluminum alloy body is designed for handling ease.

Catalog Number	Tubing O.D.	Nom. Size	EACH
TC 274	1/8 to 1-1/8" (4-28 mm)	1/8 to 1"	\$ 39.54
TC 312	1/4 to 1-5/8" (7-41 mm)	1/8 to 1 1/2"	51.00

PUNCH — TYPE

Swaging Tools



Use these tools for making tubing connections without fittings. Enlarge end of tube, insert another tube of original O.D. size and solder together like a sweat fitting. Both punch-types made of durable case hardened tool steel.

INDIVIDUAL SWAGING PUNCHES

Available in 6 sizes. Hexagon stock allows easy removal of punch.

Catalog Number	O.D. Size	Nom. Size	EACH
ST-93-3	3/16"	—	\$ 6.86
ST-93-4	1/4"	1/8"	6.86
ST-93-5	5/16"	—	7.60
ST-93-6	3/8"	1/4"	7.60
ST-93-8	1/2"	3/8"	9.82
ST-93-0	5/8"	1/2"	12.14

COMBINATION SWAGING PUNCH \$ 22.74

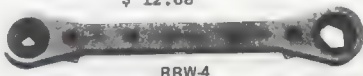
Three sizes in one tool. Knurled stock for easy removal of punch.

Catalog Number	O.D. Size	Nom. Size
ST-94	1/2, 5/8, 7/8"	3/8, 1/2, 3/4"

COMBINATION

Ratchet Wrench

\$ 12.68



RRW-4

Seven inch long wrench combines the 4 sizes most needed for installing or servicing heating, air conditioning or refrigeration units.

Catalog Number	Square	Hex
RRW-4	3/16" & 1/4"	1/2" & 9/16"

Reamer-Deburring Tool



R-208 \$ 26.34

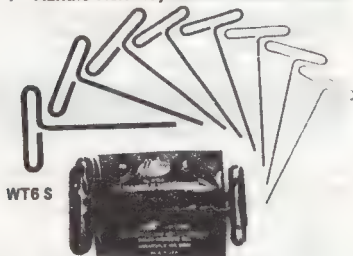
For copper, aluminum and brass tubing. Reams both inside and outside edges of tube with 3 hollow ground tool steel blades. Tool cuts when turned both clockwise and counter-clockwise. Fluted body is shaped to fit comfortably in palm.

Catalog Number	Tubing O.D.	Nom. Size
R-208	3/16 to 1 1/2"	1/8 to 1 1/4"



 BASIC CLAMPING WRENCH	Catalog Number	Size	Jaw Opening	Jaw Thickness	Net Wt.	EACH
	LW7	7"	1"	5/16"	8 oz.	\$ 10.96
	LW10	10"	1-1/2"	1/2"	1 lb. 8 oz.	12.34
 LONG NOSED CLAMPING WRENCH	Catalog Number	Size	Jaw Opening	Jaw Thickness	Net Wt.	EACH
	LW8L	8"	1 1/2"	3/16"	10 oz.	\$ 11.62
 OFFSET CUTTING TOOL—LEFT	OFFSET CUTTING TOOL					
	Catalog Number	Cutting Application	Grips	Length	Net Wt.	EACH
	LS9L	Right hand snip cuts left and straight.	orange	8 1/2"	12 oz.	\$ 18.66
 OFFSET CUTTING TOOL—RIGHT	LS9R	Left hand snip cuts right and straight.	black	8 1/2"	12 oz.	18.66

"T" Handle Hex Key Sets in Plastic Pouch



Catalog Number	Length	Description	EACH
WT6 S	6"	8 "T" handle hex keys	\$ 18.62
WT9 S	9"		22.12

EXTRA LONG NUT DRIVER WITH HOLLOW SHAFT



Catalog Number	Hex Opening	Shank Diam.	Lgth.	O/A Lgth	EACH
ND8L	1/4"	5/16"	6"	10-7/8"	\$ 5.46
ND10L	5/16"	5/16"	6"	10-7/8"	5.46

Carbide Tipped Scriber

A50 \$ 9.98



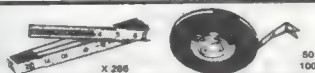


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TAPES & RULES



M-50	3/8" x 50' long tape	16.98
M-50RB	3/8" x 50' yellow refill	10.98
M-100	3/8" x 100' long tape	24.56
M-100RB	3/8" x 100' yellow refill	16.38
LT-50	3/8" x 50' long tape	27.10
LT-100	3/8" x 100' long tape	37.40
606P	inside read rule-yellow	11.86
906	outside read rule-yellow	11.86
X266	outside read 6" brass ext.	17.72

CIRCULAR SAW BLADES, DRILL BITS



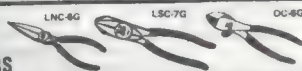
6-H	circular saw blade-rough	
6X-H	circular saw blade-rough	
7-H	circular saw blade-rough	
8-H	circular saw blade-rough	
10-H	circular saw blade-rough	
6X-MP	circular saw blade-plywood	6.60
7-Xp	circular saw blade-plywood	6.88
6X-MAS	circular saw blade-masonry	6.60
7MAS	circular saw blade-masonry	6.66
6X-MET	circular saw blade-metal	6.60
7MET	circular saw blade-metal	6.66

WRENCHES & PLIERS



AW-4	4" adjustable wrench	14.34
AW-15	15" lo. adjustable wrench	50.80
AW-12	12" lg. adjustable wrench	31.60
AW-10	10" lg. adjustable wrench	21.68
AW-8	8" lg. adjustable wrench	17.00
AW-6	6" lg. adjustable wrench	14.80
MT-12	12" lg. multi-track pliers	18.72
MT-10	10" lg. multi-track pliers	16.72
MT-7	7" lg. multi-track pliers	12.58

PLIERS & CUTTERS



LNC-6G	6X" long-nose pliers	17.02
LNC-7G	7X" long-nose pliers	17.78
LSC-7G	7X" linemans side ctrs.	20.92
LSC-8G	8X" linemans side ctrs.	23.08
LRN-8G	8" long reach duckbill	16.28
DC-6G	6X" diagonal cutter	17.06
DC-7G	7X" diagonal cutter	18.38
P-8	8" slip joint pliers	10.78
P-6	6" slip joint pliers	8.86

WB-3/8	spade type wood bit	3.14
WB-1/2	spade type wood bit	3.14
WB-5/8	spade type wood bit	3.28
WB-3/4	spade type wood bit	3.28
WB-7/8	spade type wood bit	3.52
WB-1	spade type wood bit	3.66
WB-1-1/8	spade type wood bit	5.22
WB-1-1/4	spade type wood bit	5.32
WB-1-3/8	spade type wood bit	5.46
WB-1-1/2	spade type wood bit	5.46
WB-6K	6 pc set, 3/8" to 1"	18.54
WB-10K	10 pc set, 3/8" to 1 1/2"	37.28

ALUMINUM RIVET J SERIES ALUMINUM MANDREL

AA 42 D	19.74 1M
AA 44 D	22.46 1M

STEEL RIVET J SERIES COATED STEEL MANDREL

SS 42 D	20.34 1M
SS 44 D	21.42 1M



Double faced hammer. Black painted finish with polished faces and bevels.

Catalog Number	Head Wt.	Lgth.	Face Size	O/A Lgth.	EACH
SLH-250	2 5/16s	4 1/2"	1 5/8	15 1/2"	\$ 23.72



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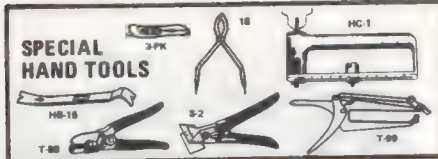
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HAND TOOLS

C-1	5 blade crimper	\$	19.94
SC-1	single crimper		12.82
N-1	hand notcher		39.98
SL-1	snap-lock punch forged hndt.		38.46
SL-2	snap lock punch-adjustable		22.80
SL-5	snap lock-plastic & aluminum		13.38
NHP-1	nail hole slot punch		26.86
8	8" folding tool		7.40
12	12" folding tool		9.82
W3-B	hex key wrench set		5.02
W-8	hex key wrenches set 6" long		11.06



SPECIAL HAND TOOLS

18	dividers-up to 36" circle		9.80
24	dividers-up to 48" circle		11.46
RP-2	replacement points		.80
HB-15	15" handy bar		13.52
PB-18	18" pry bar-1-beam type		17.26
3-PK	3 position utility knife		6.98
20-5KRB	replacement blades for 3-PK		22.46 1c
HC-1	hole cutter, adj. to 12"		54.28
C-8	replacement cutter bits		8.86
T-88	take-off tool, adjustable		27.46
T-98	tap-in seamer, 1" throat		59.88
S-2	hand seamer-compound lev.		49.58



HAND TOOLS

2-DH	pipe & duct holder set		16.74
DS-1	duct stretcher		16.52



HAMMERS

18-SC	16 oz. straight claw-steel		\$26.72
18-CC	16 oz. curved claw-steel		26.72
20-SC	20 oz. straight claw		30.52
20-CC	20 oz. curved claw		30.52
BP-8W	8 oz. ball pein-wd handle		16.12
BP-12W	12 oz. ball pein-wd handle		16.90
BP-16W	16 oz. ball pein-wd handle		18.20
BP-20W	20 oz. ball pein-wd handle		20.12
BP-24W	24 oz. ball pein-wd handle		21.92
BP-32W	32 oz. ball pein-wd handle		23.58
12-BP	12 oz. steel shank ball pein		23.68
18-BP	18 oz. steel shank ball pein		24.78
2-RW	16 oz. riveting-wd handle		20.14
3-RW	12 oz. riveting-wd handle		18.26
RH-4	12 oz. steel shank-leather		30.38
RH-4B	blue head-leather handle		29.46
2-SW	16 oz. setting-wd handle		20.80
3-SW	12 oz. setting-wd handle		19.40
SH-3	18 oz. setting-leather handle		31.42
SH-3B	blue head-leather handle		30.54
WH-23	wood handles for RW & SW		5.14



SNIPS

M-14	alum. handled snip, 14"		29.38
M-12	alum. handled snip 12"		25.68
M-14RB	replacement blades M-14		12.66
M-12RB	replacement blades M-12		10.54
1	aviation snip, cuts R to L		
1H	above with red grips		16.44
2	aviation snips, cuts L to R		
2H	above with green grips		16.44
3	combination-cuts both ways		
3H	above with yellow grips		16.44
4H	double cut w/ black grips		19.04
VG-S	green grips, pair		1.50
VG-R	red grips, pair		1.50
VG-Y	yellow grips, pair		1.50
H-S	finger guards		
M-18	steel combination snips		
M-19	steel combination snips		
M-15	steel combination snips		44.50
M-8	steel pattern snip		25.18

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.



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HIGH SPEED SHEET METAL DRILLS



DE
PD
SD

NDE-1/8	nitrided double end drill	2.18
NDE-3/32	nitrided double end drill	2.18
PD-1/8	punch drill - polished	.86
PD-3/32	punch drill - polished	.86
SD-1/8	sheeters drill - polished	1.24
SD-3/32	sheeters drill - polished	1.24
DE-7/64	double end-polished	2.10
DE-1/8	double end-polished	2.18
DE-3/32	double end-polished	2.18
DE-9/64	double end-polished	2.44
DE-3/16	double end-polished	3.36
DE-7/32	double end-polished	4.34
DE-1/4	double end-polished	5.16
FS-15-255	15 pc. drill set-shank red.	81.84
FS-165	10 pc. fractional drill set	16.84
DG-50	drill guard	
DG-40	drill guard	4.22
DG-28	drill guard	4.22
DG-20	drill guard	4.22
DG-12	drill guard	4.22
DG-10	drill guard	4.22
DG-1/4	drill guard	6.68
DG-5/16	drill guard	6.68

PRECISION TAPES



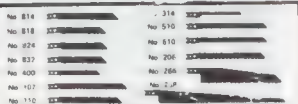
3LP16	3/4" x 16' locking tape	18.08
3LP18	3/4" x 16' white refill	7.62
2P12	1/2" x 12' push button	9.40
2P12	1/2" x 12' white refill	5.34
3P10	3/4" x 10' push button	11.26
3P10	3/4" x 10' white refill	5.68
3P12	3/4" x 12' push button	14.41
3P12	3/4" x 12' white refill	6.38
1T8	1/4" x 8' thin tape	4.40
2L10	1/2" x 10' Tru-lok	9.58
2R10	1/2" x 10' white refill	4.60
2L12	1/2" x 12' Tru-lok	11.10
2R12	1/2" x 12' white refill	5.40
3L10	3/4" x 10' Tru-lok	13.58
3R10	3/4" x 10' white refill	6.58
3L12	3/4" x 12' Tru-lok	14.42
3R12	3/4" x 12' white refill	7.34
3L16	3/4" x 16' Tru-lok	17.84
3R16	3/4" x 16' yellow refill	8.96
3L20	3/4" x 20' Tru-lok	19.10
3R20	3/4" x 20' yellow refill	10.00
4L25	1" x 25' Tru-lok	22.08
4R25	1" x 25' yellow refill	11.20
36	circumference rule-2 sides	46.34
48	circumference rule-1 side	58.88
48BS	circumference rule-2 sides	62.32

RIVETERS



2-in-1	red metal box only	
2-in-1	hand riveter- 1-6	59.88
	two pulling pos. 7-50	
	51+	
2-in-1 K	kit-rvtr, plastic bx, rvs. 1-6	65.60
	7-50	
	51+	

SABRE SAW BLADES



814	metal cutting 3 3/8" x 14 t.	5	5.06
818	metal cutting 2 3/4" x 18 t.	5	5.06
824	metal cutting 2 3/4" x 24 t.	5	5.06
832	metal cutting 2 3/4" x 32 t.	5	5.06
400	knife cutting 2 3/4" long	5	
107	wood cutting 3-5/8" x 7 t.	5	2.60
110	wood cutting 3-5/8" x 10 t.	5	2.96
314	wood scroll 2 3/4" x 14 t.	5	3.94
510	h.d. wood scroll 3-5/8 x 10 t.	5	7.86
610	h.d. wood scroll 3-5/8 x 12 t.	5	6.54
206	wood cutting 3-5/8" x 6 t.	5	3.36
266	hvy. wood scroll 4-5/8" x 6 t.	5	
268	hvy. wood scroll 6" x 8 t.	5	8.54

NEW



Catalog Number	Capacity 3/32" rivet dia. thru--	Net. Weight	Loose	EACH
CR201	3/16" w/ steel mandrel 5-32" w/stainless steel mandrel	1 lb. 4 oz	9	45.22
CR201 KIT				
Catalog Number	Description			
CR201 K	Kit, including CR201, carrying case & rivet selection.			51.82



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DRIVERS



HHD-1	hand hex driver w/magnet	7.82
LHD-1	long magnetic hex adaptor	
GF-66	grp tip hand driver	8.78
GF-44	grp tip hand driver	5.48
GF-41	discontinued	
ND-7K	7 pc. hollow nut driver set	37.82
ND-8	3/16" hollow nut driver	4.54
ND-9	1/4" hollow nut driver	4.54
ND-10	5/16" hollow nut driver	4.54
ND-11	11/32" hollow nut driver	4.74
ND-12	3/8" hollow nut driver	4.74
ND-14	7/16" hollow nut driver	6.08
ND-16	1/2" hollow nut driver	6.08

LEVELS



L-48	48" magnesium level	
L-28	28" magnesium level	
L-24P	24" magnesium-protector	
L-24T	24" magnesium-top read	
L-24TS	24" mag-top read, slim	
L-24AT	24" aluminum level	22.60
L-24	24" magnesium level	
L-9	9" alum. torpedo level	12.68
L-9M	9" plastic torp. w/magnet	16.78
L-3	3" line level-aluminum	3.54

HEX DRIVERS

1 1/2" Long - Magnetic - Medium Length 1/2" Shank



MSH-1/4	1/4" driver	7/16"	4.74
MSH-5/16	5/16" driver	1/2"	5.84
MSH-3/8	3/8" driver	9/16"	7.24

Ball Tip "L" Wrenches

Two tools in one. Ball end provides convenience of off-axis "L" rotation. Standard end provides leverage for maximum torque.

"L" Wrench Set with Plastic Case

Catalog No.	Description	EACH
WBL 12S	12 "L" Ball Tips (.050-5/16")	36.04

COMPASS SAWS



914	14" compass saw blade	
912	12" compass saw blade	
14CS	14" compass saw blade	6.26
12CS	12" compass saw blade	6.06
CH-P	plastic saw handle	5.14
CH-W	laminated wood saw handle	5.26

TOOL POUCHES & APRONS

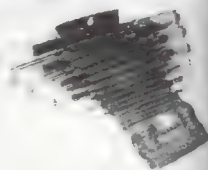


TPA-1	10 pocket waist apron	7.78
TPA-2	6 pocket bib apron	8.20
TPB-1	2 1/2" adjustable web belt	7.58
TP-1	leather tool pouch	33.92
TP-2	leather tool pouch	32.32
TP-3	leather tool pouch	38.18
TP-4	leather tool pouch	36.72
TP-5	dbl leather bag-apron + belt	70.00

Ball Tip Drivers

Driver Sets in Soft Plastic Roll-up Case

WBL 12S



Catalog Number	Description	EACH
WBD 8S	8 Ball Tip drivers (7/64-5/16")	36.42
WBD 12S	12 Ball Tip drivers (.050-5/16")	49.74

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.



RESIDENTIAL

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INDUSTRIAL

DRILL-IN SCREWS

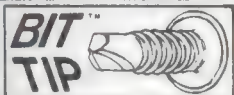
ZINC PLATED STEEL INDENTED HEX SLOTTED-
TYPE 'A'

HW 8x1/2 Z	\$4.96 2c
HW 8x3/4 Z	5.76 2c
HW 8x 1 Z	3.86 2c
HW 10x1/2 Z	6.30 1c
HW 10x3/4 Z	6.78 2c
HW 10x 1 Z	4.40 1c
HW 10x 1 1/2	5.68 1c

SHEET METAL SCREWS

ZINC PLATED SLOTTED PAN HEAD STEEL-
TYPE 'A' SCREW

SP 8x1/2	\$5.42 2c
SP 8x3/4	5.96 2c
SP 8x 1	3.74 1c
SP 10x1/2	6.20 2c
SP 10x3/4	6.72 2c
SP 10x 1	4.54 1c
SP 10x 1 1/4	5.16 1c
SP 10x 1 1/2	5.32 1c



BT141	HW	10-18x1/2	\$36.80 5c
BT142	HW	10-16x5/8	40.60 5c
BT143	HW	10-16x3/4	32.56 5c
BT144	HW	10-16x1	44.86 5c
BT146	HW	10-18x1 1/2	52.52 5c

WATERLESS HAND CLEANER

...in a tough plastic tube

This hand cleaner is formulated for hard working, dirty hands. It really works on grease, grime, tar, pipe dope, typewriter ink, asphalt, fresh paint, gum, etc. Contains skin conditioners to protect while it deep cleans.

\$ 5.68

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND
CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

SCREWDRIVERS



K-41	reg. round keystone-orange	\$ 3.00
K-44	reg. round keystone-orange	4.48
K-58	reg. round keystone-orange	5.66
K-68	reg. round keystone-orange	7.06
K-810	reg. round keystone-orange	8.14
S-44	square shank-orange hnd.	4.80
S-58	square shank-orange hnd.	6.34
S-58	square shank-orange hnd.	8.08
S-812	square shank-orange hnd.	10.42
C-22	elect./cabinet-w/clip	1.72
C-33	elect./cabinet-orange hnd.	3.68
C-38	elect./cabinet-orange hnd.	4.20
C-45	elect./cabinet-orange hnd.	4.66
C-48	elect./cabinet-orange hnd.	5.12
C-24	elect.-orange handle	2.60
C-26	elect.-orange handle	3.12
C-28	elect.-orange handle	3.40
P-33	#1 phillips-orange handle	3.94
P-42	#2 phillips-orange handle	4.20
P-44	#2 phillips-orange handle	5.00
P-58	#3 phillips-orange handle	7.52

SCREWDRIVERS



GK-44	giant grip-round keystone	5.78
GK-56	giant grip-round keystone	6.88
GK-68	giant grip-round keystone	8.26
GK-610	giant grip-round keystone	9.42
GP-42	giant grip-#2 phillips hd.	
GK-42	giant grip-round keystone	4.12
GS-44	giant grip-square shank	5.92
GS-56	giant grip-square shank	8.86
GS-68	giant grip-square shank	11.26
A-00	scratch awl-5 1/2 x 1/8" max.	1.46
A-0	scratch awl-6" x 1/8" max.	2.02
A-10	scratch awl-7" x 3/16" max.	3.68
A-20	scratch awl-8" x 1/4" max.	4.74
A-1	scratch awl-5 1/2 x 1/32" max.	2.52
A-2	scratch awl-6 1/2 x 1/4" max.	4.38
A-3	scratch awl-8 x 3/8" max.	6.94
RD-4K	handle with both blades	
RD-2S	handle with small blades	
RD-2L	handle with large blades	
RD-H1	handle only	
RB-2S	small blade only	
RB-2L	large blade only	

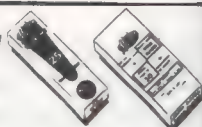


RECIPROCATING SAW AND BLADES



RS-66	metal box only	1	
RS-66	reciprocating saw only	1	341.84
RS-65K	saw, metal box & 8 blades	1	377.82
4-KH7	wood rough in, 6"x7tooth	5	9.94
6-4KH7	bulk pack	25	44.66
4-KH8	wood rough in, 6"x8tooth	5	9.94
6-4KH8	bulk pack	25	44.66
12-KH-7	wood rough in, 12"x7tooth	5	16.00
12-KH8	wood rough in, 12"x8tooth	5	16.00
3-S6	fast cut contour 4"x6 t.	5	11.46
4-S6	fast cut contour 6"x6 t.	5	13.86
6-4-S6	bulk pack	25	62.36
4-S8	fast cut contour 6"x8 t.	5	13.86
6-4-S8	bulk pack	25	62.36
12-S6	fast cut contour 12"x6 t.	5	14.24
2-HD6	heavy duty 'speed' 3"x6 t.	10	
6-2-HD6	bulk pack	50	
2-HD8	heavy duty 'speed' 3"x8 t.	10	
6-2-HD8	bulk pack	50	
2-HD10	heavy duty 'speed' 3"x10t.	10	9.30
6-2-HD10	bulk pack	50	41.86
3-HD8	heavy duty 'speed' 4"x8 t.	10	9.64
6-3-HD8	bulk pack	50	43.36
3-HD10	heavy duty 'speed' 4"x10t.	10	9.64
6-3-HD10	bulk pack	50	43.36
4-HD6	heavy duty 'speed' 6"x6 t.	10	9.64
6-4-HD6	bulk pack	50	11.14
4-HD8	heavy duty 'speed' 6"x8 t.	10	11.14
6-4-HD8	bulk pack	50	50.06
4-HD10	heavy duty 'speed' 6"x10 t.	10	11.14
6-4-HD10	bulk pack	50	50.06
4-HD10R	above w/reverse teeth	10	
6-HD8	heavy duty 'speed' 6"x8 t.	10	12.84
6-HD10	heavy duty 'speed' 6"x10t.	10	12.84
12-HD8	heavy duty 'speed' 12"x8 t.	10	
12-HD10	heavy duty 'speed' 12"x10 t.	10	13.40

RECIPROCATING SAW BLADES



4-DS6	rough in dbl edge 6"x6 t.	5	12.66
6-4-DS6	bulk pack	25	56.94
2-18	wood & metal 3/4"x18 t.	10	
4-18	wood & metal 6"x18 t.	10	9.40
4-18R	wood & metal-reverse teeth	10	
12-18	wood & metal 12"x18 t.	10	
2-P6	plaster-transite 3/4"x6 t.	10	11.24
4-P6	plaster-transite 6"x6 t.	10	13.16
6-4-P6	bulk pack	25	29.64
3-TF14	for stainless stl. 4"x14 t.	10	14.46
3-TF18	for stainless stl. 4"x18 t.	10	14.46
3-TF24	for stainless stl. 4"x24 t.	10	
4-TF14	for stainless stl. 6"x14 t.	10	23.50
4-TF18	for stainless stl. 6"x18 t.	10	23.50
2-MS18	scroll-light metal 3"x18 t.	10	12.36
2-MS24	scroll-light metal 3"x24 t.	10	12.36
2-MS32	scroll-light metal 3"x32 t.	10	12.36
2-HS10	scroll-heavy mtl. 3/4"x10t.	10	
2-HS14	scroll-hvy. mtl. 3/4"x14 t.	10	
2-MC14	h.s. mtl. cutting 3"x14 t.	10	12.04
2-MC18	h.s. mtl. cutting 3"x18 t.	10	12.04
2-MC24	h.s. mtl. cutting 3"x24 t.	10	12.04
2-MC32	h.s. mtl. cutting 3"x32 t.	10	
3-MC14	h.s. mtl. cutting 4"x14 t.	10	14.46
3-MC18	h.s. mtl. cutting 4"x18 t.	10	14.46
3-MC24	h.s. mtl. cutting 4"x24 t.	10	14.46
3-MC32	h.s. mtl. cutting 4"x32 t.	10	14.46
4-MC14	h.s. mtl. cutting 6"x14 t.	10	23.50
4-MC18	h.s. mtl. cutting 6"x18 t.	10	23.50
4-MC24	h.s. mtl. cutting 6"x24 t.	10	23.50
6-T3	flash cut-wood 6"x3/4 t.	5	9.84
6B-T3	bulk pack	25	63.10
12-T3	flash cut-wood 12"x3/4 t.	5	14.04
2-WS8	scroll-wood cut 3/4"x8 t.	10	
2-S8	scroll-wood cut 3/4"x8 t.	5	
F6-7	flush cut for #285 saw only	5	

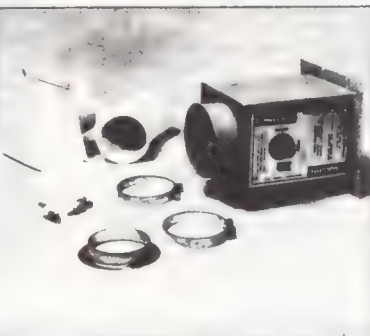
SKUTTLE

FRESH-AIR CONTROL



Model 204 \$ 82.60

For conventional forced air heating system up to 150,000 BTU
8" overall length
By-pass thru 3" tube 22 CFM
Fresh air supply
@ .10S.P. 40 CFM-4"
Air Intake Tube
@ .20S.P. 55 CFM
Damper opens
@ 100-110° F.



RESIDENTIAL

COMMERCIAL

INDUSTRIAL

THINWALL CONNECTORS
SET SCREW TYPE — STEEL LOCKNUT

$\frac{1}{4}$ 30
 $\frac{3}{4}$.48

THINWALL CONN.
COMP.

$\frac{1}{4}$.44
 $\frac{3}{4}$.62

COMBINATION B.X. &
ROMEX CONNECTOR
STEEL LOCKNUT

$\frac{1}{4}$
 $\frac{3}{4}$

THINWALL CONN. SS



$\frac{1}{4}$.32
 $\frac{3}{4}$.52

THINWALL COUPLINGS



$\frac{1}{4}$.52
 $\frac{3}{4}$.76

SET SCREW B.X. AND
GREENFIELD CONNECTORS
STEEL LOCKNUT

$\frac{3}{8}$.36

PULLING ELL



TO CONNECT BIRD CONDUIT TO BIRD CONDUIT
WITH SARKETS

$\frac{1}{4}$ 3.96
 $\frac{3}{4}$ 4.60

COMBINATION COUPLINGS
E.A.T. TO FLEX. STEEL OR ARM. CABLE

$\frac{1}{4}$.70
 $\frac{3}{4}$

90 DEGREE B.X. CONNECTORS
STEEL LOCKNUT

$\frac{3}{8}$.60



15 Amp REC.

1.22



S.P. Sw.

1.46



MINERALALLAC JIFFY STEEL CLIPS

$\frac{1}{4}$.20
 $\frac{3}{4}$.20
1 .30
 $1\frac{1}{4}$.38

WE STOCK ALL BRANDS OF TWO POLE BREAKERS

\$ 17.20

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND
CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

RESIDENTIAL

COMMERCIAL

INDUSTRIAL

FLEXIBLE STEEL CONDUIT

U.L. & C.S.A. LABELED FLEXIBLE
STEEL CONDUIT

3/9

3/4

\$ 30.00 C



10 LOT

\$ 6.50

\$ 6.00

FLEXIBLE LIQUID-TIGHT CONDUIT



The moisture- and oil-proof PVC jacket is extruded
over galvanized steel flexible conduit. Bendable to
small radii.

1/2" UL	\$ 2.40	100'
3/4" UL	3.00	100'

15 TO 30 AMPERS

They won't blow on motor-starting current or any current which lasts only a short time, because of their thermal element, yet they protect on dangerous overloads or short-circuits.



Carry Underwriters' Laboratories listed label. For voltages up to 125. Packed 4 in a colorful carton.

TL-15

TL-30

.82

CONNECTORS

FOR FLEXIBLE LIQUID TITE CONDUIT

Angle
90°

1/2" STR. CONN	2.40
3/4" "	3.30
90° CONN	3.40
3/4" "	5.42

BUSS FUSE REDUCERS



Make it possible to use Fusetron or ordinary fuses of a size smaller than the fuse clips are intended to hold.

Fit in any panel or switch as reducers take up no more space than would a fuse of a size to fit clips.

\$ 2.50 Pr

FUSETRON dual-element FUSES
125 AND 600 VOLT

Fusetron dual-element fuses are the most modern electrical protective device and are made to fit ordinary fuse holders. They have many distinct advantages over other protective devices. When used throughout the entire electrical system they offer types of protection heretofore not available.

Fusetron dual-element fuses have a fuse link element and a thermal cutout element. The result: fuses with tremendous time-lag and much less electrical resistance.

TR-30	\$ 1.66
TR-40	3.24
TR-50	3.24
TR-60	3.24

DUCT TAPE

8.40 Each 3 Lot 7.20 E

DUCTAPE



2"x60 Yards

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND
CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

RESIDENTIAL

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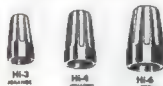
INDUSTRIAL

 BOWERS NO. 40 1/2	 BOWERS NO. 455 1/2 \$ 1.50	 BOWERS NO. 455 1 1/2 \$ 1.68
1 1/2" DEEP - 4" OCTAGON Three 1/2" K.O.'s in each of four sides with five 1/2" K.O.'s in bottom. Furnished with two 8/32 x 3/4" screws. Knockouts pressed on inside of box for easy removal.	1 1/2" DEEP - 4" SQUARE Three 1/2" K.O.'s in each of two sides, two 1/2" K.O.'s in each of other two sides. Five 1/2" K.O.'s in bottom. Furnished with 8/32 screws.	
 BOWERS NO. 105 \$ 1.16	 BOWERS NO. 455 WR 1/2 \$ 1.30	 BOWERS NO. 469 \$ 1.02
1 7/8" DEEP - 4 1/8" LONG - 2 3/8" WIDE Three 1/2" K.O.'s in each of two sides. One 1/2" K.O. in each end. Three 1/2" K.O.'s in bottom. Two mounting holes in bottom.		
 BOWERS NO. 100 \$.40	 BOWERS NO. 455 WR 3/4 \$ 1.30	 BOWERS NO. 473 \$ 1.24
 BOWERS NO. 100 TS \$.40	 BOWERS NO. 471 \$ 1.24	 BOWERS NO. 472 \$ 1.44
 BOWERS NO. 100 DR \$.42	 BOWERS NO. 480 \$ 1.24	 BOWERS NO. 476 \$ 1.44

E.M.T. THINWALL CONDUIT

Ten-foot Lengths — No Couplings
Per 100 Feet* — F.O.B. Our Warehouse

1"	\$ 3.20 -10'	\$ 31.24 C
3/4"	\$ 4.80 -10'	\$ 41.90 C

CARTON PACKED (100)

HI-3	\$ 5.90
HI-4	6.96
HI-6	7.20

60 AMP. RAINITE SAFETY SWITCH**\$ 26.40 E****\$ 21.90****10 LOT****PLASTIC JACKET THERMOSTAT WIRE**

18-2	CUT ' .12	500' ROLL	\$ 28.80
18-3	CUT ' .16	500' ROLL	
18-4	CUT ' .24	250' ROLL	27.70
18-5	CUT ' .26	250' ROLL	39.06
18-10	CUT ' .30	250' ROLL	95.00

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND
CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

SKUTTLE AIR-FLECTOR

Modern Styling. Satin-Etched High Impact Plastic for beauty and practicality. Air-Flector has satin-etched finish that won't show scratches or dust.

Curved and Straight Designs.

Model AF-3 has straight design deflector.

Models AF-4, have curved design deflectors.

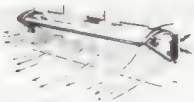
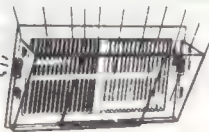
Telescopic, Adjustable Panels. Air-Flectors are easily adjustable. Panels slide in and out to fit forced air registers from 8" up to 24" wide.

Model AF-3 adjusts from 9" to 17"

Model AF-4 adjusts from 8" to 14"

Permanent Magnetic Holding Power. Air-Flector offers permanent **full-length** magnetic strips. Air-Flectors are held securely to registers. Easily removed for cleaning. No tools or screws are needed.

Versatile Applications. Use Air-Flectors, summer or winter to direct air stream where you want it. Place on high wall, low wall, baseboard, floor, and cabinet registers in your home or office.

	Description	Packaged	Ship Wt. Master Ctn. (Lbs.)	EACH
	8" to 14"	1 Per Ind. Ctn. 24 Per Master Ctn.	16	\$ 3.30
A 641-107	EXTENDER Use with AF-4	6 Pieces Per Ctn.	2	2.40
	9" to 17" Register Deflector Adjustable with Magnetic Strips for Permanent Holding Power	6 Per Ind. Ctn. 36 Per Master Ctn.	27	3.90



STAT-GARD Locking Thermostat Cover

1 TO 5
12.50

6 +
12.00



FILTER SENTINEL

1 TO 5
11.80

6 +
10.90

Best looking base diffusers on the market – the popular "Sunburst" series! Best sellers!

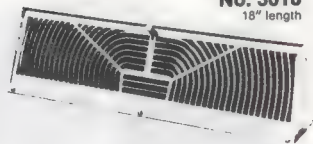
AutoFlo

SUNBURST BASE DIFFUSER

No. 3018
18" length



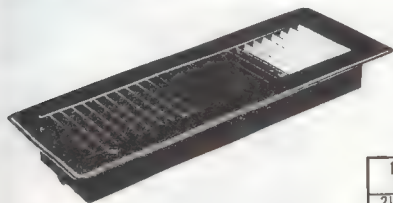
No. 3015
15" length



- Efficient, effective, low cost! Large free area for overall size – 32 Sq. In. 15", 39 Sq. In. 18".
- All steel with baked-on art buff finish. Single valve closes tight.

STYLE	WIDTH	HEIGHT	BASE EXTENSION	FREE AREA	CASE QTY.	CASE WT.	EACH
3015	15"	4-1/2"	3"	32	12	25.2	\$ 7.20
3018	18"	4-1/2"	3"	39	12	32.4	8.50

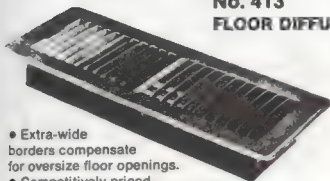
NO. 414 "FLIP-TOP" COMBINATION HEATING/COOLING/PERIMETER



- Face bars flip over for heating – fans warm air outward. Flip again for cooling – directs jet of cool air to ceiling.
- Parallel valves deflect air to wall or into room.
- Hammered Gold finish.

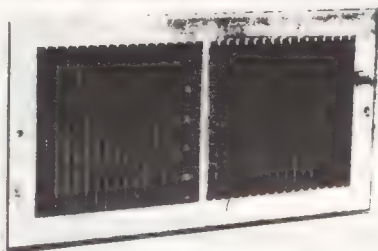
DUCT SIZE	OVERALL SIZE	FREE AREA	CASE QTY.	CASE WT.	EACH
2 1/4 x 10	3-15/16 x 11-1/2	13	10	17.0	\$ 8.96
2 1/4 x 12	3-15/16 x 13-1/2	15.5	10	20.0	9.36
2 1/4 x 14	3-15/16 x 15-1/2	18	10	23.0	11.80
4 x 10	5-11/16 x 11-1/2	25	10	23.0	10.50
4 x 12	5-11/16 x 13-1/2	30.5	10	27.0	11.56
4 x 14	5-11/16 x 15-1/2	36	10	31.0	13.96

No. 413 FLOOR DIFFUSER



- Extra-wide borders compensate for oversize floor openings.
- Competitively priced.
- Face bars set at graduated angles for wide diffusion.
- Hammered Gold finish. Parallel valves.

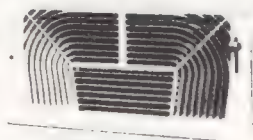
DUCT SIZE	OVERALL SIZE	FREE AREA	CASE QTY.	CASE WT.	EACH
2 1/4 x 10	3-15/16 x 11-1/2	14.8	10	13.0	\$ 4.40
2 1/4 x 12	3-15/16 x 13-1/2	17.5	10	17.0	4.50
2 1/4 x 14	3-15/16 x 15-1/2	20.5	10	19.0	4.90
4 x 10	5-11/16 x 11-1/2	26.9	10	18.0	5.50
4 x 12	5-11/16 x 13-1/2	32.0	10	26.0	5.60
4 x 14	5-11/16 x 15-1/2	37.5	10	27.0	6.10



- 3 Grille bars to the inch -- air is directed left and right at fixed 22° angle.
- Full range multiple valves adjust from 45° down to fully closed up position.
- Spring tension on multiple valves -- smooth lever operation.
- Matching inlet -- see No. 375 & 377.
- Antique White finish.

NO. 356 MULTIPLE VALVE

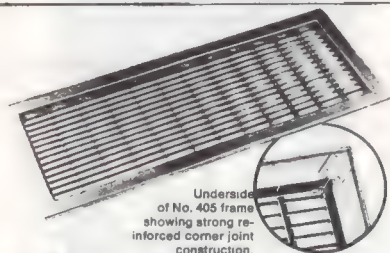
DUCT SIZE	OVERALL SIZE	FREE AREA	CASE QTY.	CASE WT.	EACH
8 x 4	9 1/2 x 5 1/2	20	10	12.0	\$ 6.10
8 x 6	9 1/2 x 7 1/2	33	20	36.0	5.80
10 x 4	11 1/2 x 5 1/2	26	10	14.0	6.20
10 x 6	11 1/2 x 7 1/2	42	20	40.0	6.30
10 x 8	11 1/2 x 9 1/2	57	10	25.0	7.30
12 x 4	13 1/2 x 5 1/2	32	10	16.0	6.30
12 x 6	13 1/2 x 7 1/2	51	20	46.0	6.70
12 x 8	13 1/2 x 9 1/2	71	10	30.0	8.00
14 x 6	15 1/2 x 7 1/2	60	20	54.0	7.30
14 x 8	15 1/2 x 9 1/2	82	10	34.0	8.80



No. 107 SUNBURST CEILING DIFFUSER

- 3-way directional air flow.
- Ideal for overhead central ducting system.
- Multiple valves for directional air control.
- Baked-on Oyster White enamel finish blends with ceiling decor.

DUCT SIZE	OVERALL SIZE	FREE AREA	CASE QTY.	CASE WT.	EACH
10 x 6	11 1/2 x 7 1/2	42			\$ 6.76
12 x 6	13 1/2 x 7 1/2	51			7.20



No. 405 TRUSSTEEL FLOOR FACE

- Same as 400 without multiple valves.
- Strong re-inforced welded corners.

DUCT SIZE	OVERALL SIZE	FREE AREA	CASE QTY.	CASE WT.	EACH
6x10	8x12	42	10	18.0	\$ 10.90
6x12	8x14	50	10	20.0	11.86
12x20	14x22	168	10	90.0	21.16

NO. 367 MULTIPLE VALVE

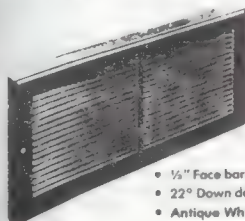
- Multiple valve directs heat along floor.
- 1/3" Vertical face bars.
- 7/8" Baseboard extension.
- Antique White finish.



DUCT SIZE	OVERALL SIZE	FREE AREA	CASE QTY.	CASE WT.	EACH
10 x 6	11 1/2 x 7 1/2	42	10	23.0	\$ 6.50
12 x 6	13 1/2 x 7 1/2	51	10	26.0	7.30
14 x 6	15 1/2 x 7 1/2	60	10	31.0	7.90

BASE INTAKES

NO. 375 7/8" EXTENSION



- 1/2" Face bar spacing.
- 22° Down deflection.
- Antique White finish.

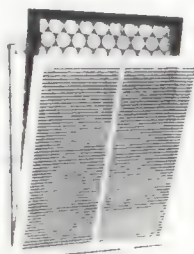
autoflo

DUCT SIZE	OVERALL SIZE	FREE AREA	CASE QTY.	CASE WT.	EACH
10 x 6	11 1/2 x 7 1/2	38	10	13.0	\$ 3.20
12 x 6	13 1/2 x 7 1/2	46	10	15.0	3.60
12 x 8	13 1/2 x 9 1/2	64	10	20.0	3.70
14 x 6	15 1/2 x 7 1/2	54	10	18.0	4.20
14 x 8	15 1/2 x 9 1/2	75	10	21.0	4.40
24 x 6	25 1/2 x 7 1/2	95	10	26.0	6.00
30 x 6	31 1/2 x 7 1/2	117	10	32.0	6.60
30 x 8	31 1/2 x 9 1/2	161	10	39.0	8.00

Extra-wide borders
enhance
this filter grille!

No. 326 FILTER GRILLE

- Overall is 2 1/2" larger than nominal size. Provides a neat installation in oversized openings.
- Tamper resistant "Wedge Lock" — hinged face.
- Three 22° angled face bars to the inch.
- Baked-on Oyster White enamel finish.
- Uses standard sized filters (not included).



DUCT SIZE	OVERALL SIZE	FREE AREA	CASE QTY.	CASE WT.	EACH
20 x 14	21 1/2 x 15 1/2	196	1	6.0	\$ 21.70
20 x 16	21 1/2 x 17 1/2	226	1	6.6	24.20
20 x 20	21 1/2 x 21 1/2	285	1	8.3	28.00
24 x 14	25 1/2 x 15 1/2	239	1	7.3	22.60
24 x 24	25 1/2 x 25 1/2	419	1	10.5	35.30
25 x 14	26 1/2 x 15 1/2	249	1	7.4	23.30
25 x 16	26 1/2 x 17 1/2	287	1	8.0	27.10
25 x 20	26 1/2 x 21 1/2	362	1	9.5	35.50
25 x 25	26 1/2 x 26 1/2	455	1	11.0	43.40



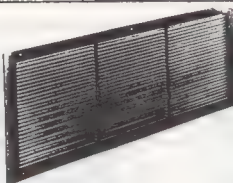
No. 173 BASE INLET- OUT-OF-WALL

- Inlet to match No. 163.
- 3 3/4" extension.

DUCT SIZE	OVERALL SIZE	FREE AREA	NO. IN CASE	CASE WT.	EACH
10 x 6	11-9/16 x 7-17/32	38	10	30.0	\$ 5.00
12 x 6	13-9/16 x 7-17/32	47	10	36.0	5.50

No. 377 GRILLE - SIDEWALL

- 22° down flow face bars provide visibility screen with adequate free area. Three bars to the inch.
- Large variety stock sizes.



DUCT SIZE	OVERALL SIZE	FREE AREA	CASE QTY.	CASE WT.	EACH
8x4	9½x5½	19	10	6.0	\$ 2.50
10x4	11½x5½	24	10	7.0	2.60
10x6	11½x7½	38	10	9.0	2.80
12x4	13½x5½	29	10	9.0	2.80
12x6	13½x7½	46	10	11.0	3.20
12x8	13½x9½	64	10	16.0	3.40
12x12	13½x13½	99	10	21.0	5.80
14x6	15½x7½	54	10	13.0	3.40
14x8	15½x9½	75	10	17.0	3.60

DUCT SIZE	OVERALL SIZE	FREE AREA	CASE QTY.	CASE WT.	EACH
14x14	15½x15½	138	10	25.0	\$ 7.70
14x20	15½x21½	196	10	38.0	11.10
14x24	15½x25½	239	10	45.0	13.30
16x8	17½x9½	87	10	16.0	3.90
16x20	17½x21½	226	10	44.0	12.60
20x6	21½x7½	78	10	18.0	4.50
20x14	21½x15½	239	10	45.0	11.10
20x16	21½x17½	275	10	51.0	12.60
20x20	21½x21½	285	10	58.0	15.00
24x6	25½x7½	95	10	21.0	5.00
24x16	25½x17½	275	10	51.0	14.80
24x20	25½x21½	347	10	61.0	17.90
24x8	25½x9½	131	10	26.0	6.00
30x6	31½x7½	117	10	27.0	6.00
30x8	31½x9½	161	10	33.0	6.70

NO. 1800 ROUND DAMPER



- Knob-operated worm gear adjusts patented butterfly valve -- only 2½ turns to full open or close.
- Controls volume -- not air pattern. Minimum air restriction.
- Antique White finish.

DUCT SIZE	OVERALL SIZE	FREE AREA	CASE QTY.	CASE WT.	EACH
6"	7"		10	9.0	\$ 8.60
8"	9"		10	12.0	8.70
10"	11"		10	16.0	10.00
12"	13"		10	21.0	12.50

NO. 1900 ROUND FRAME



DUCT SIZE	OVERALL SIZE	FREE AREA	CASE QTY.	CASE WT.	EACH
6"	7"		10	2.0	\$ 2.20

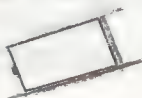
NO. 1500 ROUND

- Overlapping rings stepped-down for efficient, draft-free diffusion.
- Outer ring design resists ceiling smudging
- Antique White finish.



DUCT SIZE	OVERALL SIZE	FREE AREA	CASE QTY.	CASE WT.	EACH
6"	9-7/16	22	10	12.0	\$ 5.00
8"	11-11/16	39	10	18.0	6.10
10"	15-15/16	61	10	24.0	7.10
12"	16-3/16	87	10	33.0	8.60

No. 125 STUDDING FRAME



- 19" horizontal arms to provide for offset positioning of head between 18" studding centers.

DUCT SIZE	OVERALL SIZE	FREE AREA	CASE QTY.	CASE WT.	EACH
10x6			30	33.0	\$ 4.10
12x6			30	33.0	4.10

NO. 192-L REGISTER, SINGLE DEFLECTION

- Vertical center-pivoted, individually adjustable airfoil grille bars for smooth air flow.
- Grille bars are 3/4" deep, mounted on 1/4" centers.

- Horizontal multiple valves.
- Antique White finish.



DUCT SIZE	OVERALL SIZE	CASE QTY.	CASE WT.	EACH
8 x 4	9 1/2 x 5 1/2	10	14.0	\$ 12.76
8 x 6	9 1/2 x 7 1/2	10	21.0	14.16
8 x 8	9 1/2 x 9 1/2	1	2.3	17.20
10 x 4	11 1/2 x 5 1/2	10	15.0	13.70
10 x 6	11 1/2 x 7 1/2	10	24.0	14.60
10 x 8	11 1/2 x 9 1/2	10	31.0	16.40
12 x 4	13 1/2 x 5 1/2	10	20.0	15.00
12 x 6	13 1/2 x 7 1/2	10	26.0	16.20
12 x 8	13 1/2 x 9 1/2	10	33.0	19.06
12 x 10	13 1/2 x 11 1/2	1	3.9	22.56
12 x 12	13 1/2 x 13 1/2	1	4.6	25.40
14 x 4	15 x 5 1/2	10	23.0	16.56
14 x 6	15 x 7 1/2	10	31.0	19.20
14 x 8	15 x 9 1/2	10	38.0	21.30

DUCT SIZE	OVERALL SIZE	CASE QTY.	CASE WT.	EACH
14 x 10	15 x 11 1/2	1	4.5	\$ 25.10
16 x 6	17 x 7 1/2	1	3.9	23.10
16 x 8	17 x 9 1/2	1	4.8	26.36
18 x 6	19 x 7 1/2	1	4.0	24.75
18 x 8	19 x 9 1/2	1	5.0	28.16
20 x 6	21 x 7 1/2	1	4.9	26.10
20 x 8	21 x 9 1/2	1	6.1	30.30
24 x 6	25 x 7 1/2	1	5.5	31.70
24 x 8	25 x 9 1/2	1	6.7	37.06
24 x 12	25 x 13 1/2	1	9.6	45.50

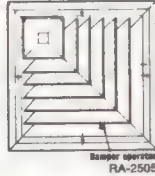
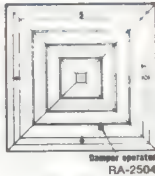
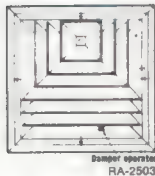
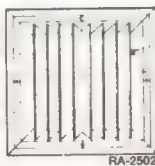
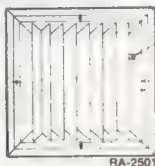
ALUMINUM MULTI-PATTERN CEILING DIFFUSERS

OVERALL SIZE	CASE QTY.	CASE WT.	RA 2501 A* RA 2502 A*	RA 2503 A* RA 2504 A*	RA 2505 A*
6x6	10	13.0	19.26	20.76	21.10
8x8	10	18.2	22.26	23.26	24.30
10x10	10	26.8	27.10	28.40	29.66
12x12	10	33.4	33.66	35.20	36.76
14x14	10	44.0	39.76	43.86	45.80

*Be sure to include size to these catalog numbers when ordering.
For example: RA 2501 A 6x6.

- A low cost diffuser with factory installed opposed blade damper-hidden damper operator with finger tip control knob.
- Five pattern styles for one, two, three, four and two way corner air flow.
- Four screw holes for tight ceiling fit. Sponge gasket prevents ceiling sagging.

AVAILABLE
IN FIVE
SQUARE PATTERN
STYLES



POLYSTYRENE T-BAR CUBE CORE GRILL (718)

CATALOG NO.	OVERALL SIZE	FREE AREA	CASE QTY.	CASE WT.	EACH
718 W 24x24	24x24	400	20	44.0	\$ 14.16
718 W 24x48	24x48	800	10	44.0	25.66

- Blend perfectly into T-Bar Ceilings.

T-BAR PANEL FOR RA-2500 SERIES DIFFUSERS

CATALOG NO.	OVERALL SIZE	CASE QTY.	CASE WT.	EACH
RA 674	22 3/4 x 23 3/4	1	8.0	\$ 35.66
RA 675	23 3/4 x 37 3/4	1	16.0	48.56

- Panels and prices for RA series do not include diffusers.

#116

2 FT. SNAPLOCK



SIZE	GAUGE	JTS. PER CARTON	Less Ctn	Full Ctn
#116 2' GALVANIZED PIPE				
3"	30	25	2.06	1.84
4"	30	25	2.40	2.14
5"	30	25	3.12	2.34
6"	30	25	2.76	2.46
7"	30	25	3.60	3.20
10"	30	10	5.44	4.84
12"	30	10	6.76	6.04
3"	28	25	2.28	2.04
4"	28	25	2.70	2.42
5"	28	25	3.12	2.78
6"	28	25	3.44	3.06
7"	28	25	4.12	3.68
8"	28	10	4.54	4.05
9"	28	10	5.14	4.58
10"	28	10	5.66	5.04
12"	28	10	7.02	6.26
5"	26	25	3.64	3.24
6"	26	25	4.16	3.70
7"	26	25	4.74	4.24
8"	26	10	5.38	4.78

#5116

10 FT. SNAPLOCK PIPE



#5117

5 FT. SNAPLOCK PIPE



SIZE	GAUGE	JTS. PER CARTON	Less Ctn	Full Ctn
#5116 10' GALVANIZED PIPE				
6"	30	5	N/A	12.34
#5117 5' GALVANIZED PIPE				
6"	30	10	6.66	5.94
8"	30	10	10.50	9.36

#120 GALVANIZED ELBOW

SIZE	GAUGE	NO. PER CARTON	Less Ctn	Full Ctn
3"	30	12	2.12	1.90
4"	30	12	2.24	2.00
6"	30	12	2.34	2.08
7"	30	12	3.30	2.94
8"	30	12	4.04	3.60
10"	30	12	5.82	5.20
12"	30	12	7.56	6.74
3"	28	12	2.34	2.08
4"	28	12	2.50	2.24
5"	28	12	2.76	2.46
6"	28	12	3.06	2.72
7"	28	12	3.70	3.30
8"	28	12	4.44	3.96
10"	28	12	6.16	5.50
12"	28	12	8.84	7.88
5"	26	12	3.05	2.72
6"	26	12	3.38	3.02
7"	26	12	4.32	3.86
8"	26	12	5.08	4.52

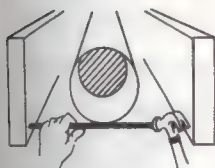
#120

90° ADJUSTABLE
ELBOWS



a Standex company

STANDEX ENERGY SYSTEMS

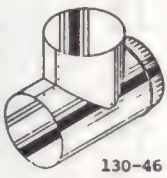
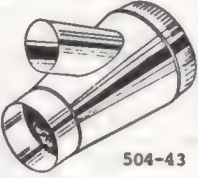


NO. 344

15 5/16"
actual length

PIPE HANGARS

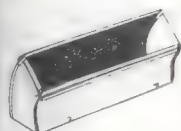
SIZE	NO. PER CARTON	Less Ctn	Full Ctn
15 5/16	50	.56	.50

	SIZE	NO PER CARTON	LESS CTN	FULL CTN
 = 604-59 45 Vent Saddle Galvanized	#604-59 45 VENT SADDLE GALVANIZED			
	3"	12	4.11	3.66
	4"	12	4.84	4.32
 130-46	#130-46 GALVANIZED TEE JOINTS			
	6" x 6" x 6"	12	9.16	8.16
	8" x 8" x 8"	12	11.46	10.21
 504-43 FLUE WYE	#504-43 FLUE WYE			
	5" x 4" x 3"	12	11.22	10.00
	6" x 5" x 3"	12	11.42	10.18
	7" x 5" x 3"	12	11.62	10.36
	7" x 6" x 3"	12	11.62	10.36
	8" x 6" x 3"	12	13.38	11.90
	6" x 4" x 4"	12	11.38	10.12
	7" x 5" x 4"	12	12.58	11.20
	7" x 6" x 4"	12	12.58	11.20
	8" x 6" x 4"	12	13.38	11.90
 #42	#42 Y-BRANCH			
	8" x 6" x 6"	12	10.60	9.46
 No. 83 Damper Regulator Set	#83 DAMPER SET			
		12	2.00	1.60

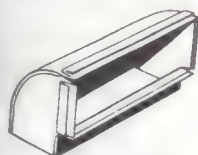


Galvanized Wall Stack

#1048



#714-34
45° Angle
Shortway Stack



#725-33
90° Elbow
Shortway Stack

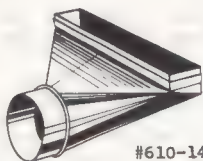


#715-36
45° Angle
Longway Stack



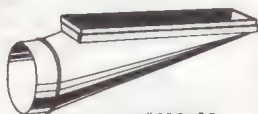
#716-35
90° Elbow
Longway Stack

SIZE	NO PER CARTON	LESS CTN	FULL CTN
# 1024 24" GALVANIZED WALL STACK			
10" x 2½"	12	6.10	5.44
12" x 2½"	12	6.70	5.98
10" x 3½"	12	6.10	5.44
12" x 3½"	12	6.70	5.98
# 1048 48" GALVANIZED WALL STACK			
10" x 2½"	12	12.20	10.88
12" x 2½"	12	13.40	11.96
10" x 3½"	12	12.20	10.88
12" x 3½"	12	13.40	11.96
# 714-34 SHORTWAY STACK ANGLE			
10" x 2½"	12	4.90	4.36
12" x 2½"	12	5.38	4.78
10" x 3½"	12	4.90	4.36
12" x 3½"	12	5.38	4.78
# 725-33 SHORTWAY STACK ELBOY			
10" x 2½"	12	4.90	4.36
12" x 2½"	12	5.38	4.78
10" x 3½"	12	4.90	4.36
12" x 3½"	12	5.38	4.78
# 715-36 LONGWAY STACK ANGLE			
12" x 2½"	12	9.76	8.70
10" x 3½"	12	8.36	7.46
12" x 3½"	12	9.76	8.70
# 716-35 LONGWAY STACK ELBOW			
12" x 2½"	12	11.34	10.10
10" x 3½"	12	9.60	8.56
12" x 3½"	12	11.34	10.10



#610-14

Stack Angle Boot



#612-13

Stack End Boot



Stack Universal Boot

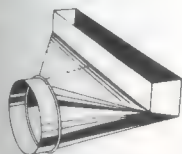
#608-12



Boot Extension

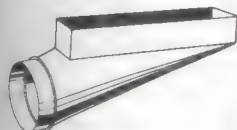
SIZE	COLLAR SIZE	NO PER CARTON	LESS CTN	FULL CTN
#610-14 STACK ANGLE BOOT				
10" x 2½"	6"	12	5.44	4.86
12" x 2½"	6"	12	5.56	4.94
10" x 3¼"	6"	12	5.44	4.86
12" x 3¼"	6"	12	5.56	4.94
#612-13 STACK END BOOT				
10" x 2½"	6"	12	5.44	4.86
12" x 2½"	6"	12	5.56	4.94
10" x 3¼"	6"	12	5.44	4.86
12" x 2½"	6"	12	5.56	4.94
# 608-12 STACK UNIVERSAL BOOT				
10" x 2½"	6"	12	5.44	4.86
12" x 2½"	6"	12	5.56	4.94
10" x 3¼"	6"	12	5.44	4.86
12" x 3¼"	6"	12	5.56	4.94
# 5046-340 BOOT EXTENSION				
10" x 2½"		12	1.68	1.50
12" x 2½"		12	1.68	1.50
10" x 3¼"		12	1.68	1.50
12" x 3¼"		12	1.68	1.50

610F - 14



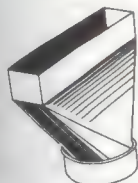
Register Angle Boot

612F - 13



Register End Boot

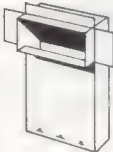
608F - 12

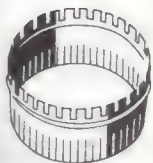


Register Universal Boot

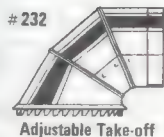
#612F-L-17
Left#612F-R-18
Right

SIZE	COLLAR SIZE	NO. PER CARTON	LESS CARTON	FULL CARTON
# 610F-14 REGISTER ANGLE BOOT				
10" x 2½"	6"	12	5.26	4.68
12" x 2½"	6"	12	5.06	4.50
10" x 4"	6"	12	5.06	4.50
10" x 6"	6"	12	8.30	7.40
12" x 4"	6"	12	5.20	4.62
12" x 6"	6"	12	8.38	7.48
# 612F-13 REGISTER END BOOT				
10" x 2½"	6"	12	5.26	4.68
12" x 2½"	6"	12	5.06	4.50
10" x 4"	6"	12	5.06	4.50
10" x 6"	6"	12	8.30	7.40
12" x 4"	6"	12	5.20	4.62
12" x 6"	6"	12	8.38	7.48
# 608F-12 REGISTER UNIVERSAL BOOT				
10" x 2½"	6"	12	5.26	4.68
12" x 2½"	6"	12	5.06	4.50
10" x 4"	6"	12	5.06	4.50
10" x 6"	6"	12	8.30	7.40
12" x 4"	6"	12	5.20	4.62
12" x 6"	6"	12	8.38	7.48
# 612F-L 17 REGISTER END BOOT, # 612F-L 18				
12" x 2½"	6"	12	5.30	4.72
STANDEX ENERGY SYSTEMS				
Hugert Division				

		SIZE	NO PER CARTON	LESS CTN	FULL CTN
#26  Register Head		# 26 REGISTRAR HEAD			
		10" x 2½"-10" x 6"	12	6.58	5.86
		12" x 2½"-12" x 6"	12	6.86	6.12
#310  Sidewall Register Head		# 310-37 SIDEWALL REGISTER HEAD			
		10" x 2½"-10" x 6"	12	7.38	6.58
		12" x 2½"-12" x 6"	12	8.18	7.28
		10" x 3½"-10" x 6"	12	7.38	6.58
		12" x 3½"-12" x 6"	12	8.18	7.28
#325  Double Stack Head		# 325 DOUBLE STACK HEAD			
		10" x 3½"-10" x 6"	12	7.11	6.33
		12" x 2½"-12" x 6"	12	7.68	6.84
		12" x 3½"-12" x 6"	12	7.68	6.84
#20  Basement Ceiling Head		# 20 BASEMENT CEILING HEAD			
		10" x 6" x 6"	12	7.12	6.34
		12" x 6" x 6"	12	7.54	6.72
#230-11  Floor Register Box		#230-11 11" DEEP FLOOR REFISTER BOX			
		10" x 6"	12	9.12	8.12
		12" x 6"	12	9.42	8.40



4-10
(Crimped)



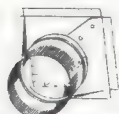
Adjustable Take-off



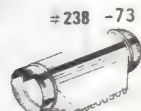
Zero Top Take-off

235-76

236-EP1



Rectangular To Round
Take-Off



Double Take-off

SIZE	NO. PER CARTON	LESS CTN	FULL CTN
# 4-10 CRIMPED COLLAR			
3"	24	1.38	1.22
4"	24	1.38	1.22
5"	24	1.38	1.22
6"	24	1.44	1.28
8"	24	1.82	1.62
10"	24	2.20	1.96
12"	24	2.42	2.16
# 232 ADJUSTABLE TAKE OFF			
6"	12	4.10	3.64
# 235-76 ZERO TOP TAKE-OFF			
6"	12	6.40	5.70
# 236-EP1 RECTANGULAR TO ROUND			
6"	12	7.28	6.48
# 238-73 DOUBLE TAKE OFF			
6"	12	11.56	10.30

#1148

#1196

#19-401

Joist Panning Tin Plate

830-29

Duct End Cap

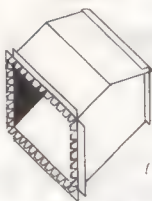
SIZE	NO. PER CARTON	LESS CTN	FULL CTN
# 1148 48" GALVANIZED DUCT			
8" x 8"	6	15.56	13.86
12" x 8"	6	18.00	16.06
14" x 8"	6	20.20	18.00
16" x 8"	6	21.60	19.26
20" x 8"	6	25.00	22.28
24" x 8"	6	28.28	25.20
# 1196 96" GALVANIZED DUCT			
8" x 8"	3	31.10	27.72
12" x 8"	3	36.04	32.12
14" x 8"	3	40.40	36.00
16" x 8"	3	43.32	38.52
20" x 8"	3	50.00	44.56
24" x 8"	3	56.56	50.40
# 19-401 JOIST PANNING			
30" x 16"	20	3.70	3.30
30" x 32"	10	6.88	6.12
# 830-29 DUCT END CAP			
8" x 8"	12	2.84	2.54
12" x 8"	12	3.00	2.66
14" x 8"	12	3.20	2.84
16" x 8"	12	3.40	3.02
20" x 8"	12	3.90	3.48
24" x 8"	12	4.40	3.90

Class 1 Air Duct For High & Low Pressure Heating & Cooling Systems

<u>DUCTLINER</u>				PRICE PER ROLL	
				1 TO 5	6+
$\frac{1}{2}$ "x2"x4.8x100'				\$ 170.60	\$ 157.60
1"x1 $\frac{1}{2}$ "x4.8"x100'				224.00	207.00
<u>DUCTWRAP</u>					
1"x1 $\frac{1}{2}$ "x4.8"x100 GREY VINYL				155.40	143.60
<u>FLEX DUCT - UL Listed - 1" Insulation</u>					
SIZE	Sec/Ctn	LENGTH		1 TO 5 Sec	6+ Sec
6"	9	10'		3.02'	2.74'
8"	4	10'		3.62'	3.26'
10"	4	10'		4.48'	4.04'
12"	2	10'		5.10'	4.60'
<u>FLEX DUCT - UL LISTED - 1" Insulation</u>					
SIZE	Sec/ctn	LENGTH		1 TO 5 Sec	6+ Sec
6"	1	30'		2.66	2.16
<u>FLEX DUCT - UL Listed - NO Insulation</u>					
SIZE	Sec/ctn	LENGTH		1 TO 5 Sec	6+ Sec
3"	9	20'		19.40	17.60
4"	1	20'		19.40	17.60
<u>CHROME - POLYESTER - NO INSULATION</u>					
SIZE	Sec/ctn	LENGTH		1 TO 5 Sec	6+ Sec
3"	6	25'		23.00	21.00
6"	6	25'		34.00	31.00
<u>SLEEVE</u>					
SIZE	Sec/ctn	LENGTH	EACH	1 TO 5 Ctn	6+ Ctn
6"	20	5'	\$ 5.00	89.52	80.66

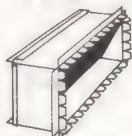
DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND
CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

#800 -27



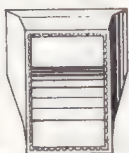
Offset Starting Collar

#805 -28



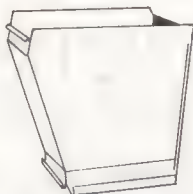
Straight Duct Starting Collar

#810C -22



Transition Starting Collar

#1005-113



Reducer or Increaser

#1006-21



Reducer or Increaser

SIZE	NO. CARTON	LESS CARTON	FULL CARTON
# 800-27 OFFSET STARTING COLLAR			
8" x 8"	6	10.38	9.24
12" x 8"	6	11.88	10.58
14" x 8"	6	12.50	11.14
16" x 8"	6	13.14	11.70
20" x 8"	6	14.74	13.14
24" x 8"	6	16.34	14.56
# 805-28 STRAIGHT STARTING COLLAR			
8" x 8"	6	5.14	4.58
12" x 8"	6	5.88	5.24
14" x 8"	6	6.56	5.84
16" x 8"	6	6.94	6.18
20" x 8"	6	8.20	7.32
24" x 8"	6	9.18	8.18
# 810C-22 TRANSITION STARTING COLLAR			
18" x 12"-20" x 8"	6	17.88	15.92
18" x 12"-24" x 8"	6	23.08	20.56
# 1005-113 REDUCER OR INCREASER			
12" x 8"- 8" x 8"	6	15.28	13.62
14" x 8"- 8" x 8"	6	16.66	14.84
14" x 8"-12" x 8"	6	16.66	14.84
16" x 8"-12" x 8"	6	17.78	15.84
16" x 8"-14" x 8"	6	17.78	15.84
20" x 8"-12" x 8"	6	20.40	18.18
20" x 8"-14" x 8"	6	20.40	18.18
20" x 8"-16" x 8"	6	20.40	18.18
24" x 8"-20" x 8"	6	23.88	21.28
# 1006-21 REDUCER OR INCREASER			
0" - 4"	12	3.38	3.00
0" - 6"	12	3.38	3.00

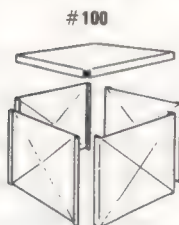
	SIZE	NO. PER CARTON	Less Ctn	Full Ctn
#714 -24	#714-24 SHORT DUCT ANGLE			
 45° Shortway Duct Angle	8" x 8"	4	9.80	8.74
	12" x 8"	4	11.18	9.96
	14" x 8"	4	11.72	10.44
	16" x 8"	4	12.18	10.84
	20" x 8"	4	13.62	12.12
	24" x 8"	4	15.58	13.88
#713 -23	#713-23 SHORTWAY DUCT ELBOW			
 90° Shortway Duct Elbow	8" x 8"	4	13.06	11.64
	12" x 8"	4	14.90	13.28
	14" x 8"	4	15.64	13.92
	16" x 8"	4	16.24	14.46
	20" x 8"	4	18.14	16.18
	24" x 8"	4	20.78	18.50
#715 -26	#715-26 LONGWAY DUCT ANGLE			
 45° Longway Duct Angle	8" x 8"	4	9.82	8.74
	12" x 8"	4	11.72	10.44
	14" x 8"	4	13.16	11.72
	16" x 8"	4	13.96	12.44
	20" x 8"	4	18.80	16.74
	24" x 8"	4	24.50	21.84
#716 -25	#716-25 LONGWAY DUCT ELBOW			
 90° Longway Duct Elbow	8" x 8"	4	13.10	11.68
	12" x 8"	4	15.62	13.92
	14" x 8"	4	17.56	15.64
	16" x 8"	4	19.70	17.54
	20" x 8"	4	25.08	22.34
	24" x 8"	4	32.68	29.12



Universal Plenum



Cold Air Drop Assembly

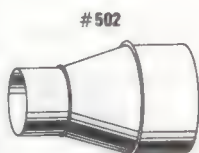


Prefabricated Plenum

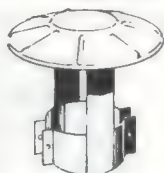
#100 U UNIVERSAL PLENUM PANELS		
PANEL SIZE		EACH
34" x 14"		6.76
34" x 16"		7.38
34" x 18"		8.00
34" x 20"		8.52
34" x 22"		9.10
34" x 25"		10.10
34" x 28"		10.86
UNIVERSAL PLENUM TOPS		
TOP SIZE		EACH
16" x 16"		3.30
20" x 20"		4.48
22" x 22"		5.08
25" x 25"		6.88
28" x 28"		7.54
COLD AIR DROP ASSEMBLY		
SIZE	NO PER CARTON	EACH
20" x 10"-20" x 16"	1	80.50
25" x 10"-25" x 16"	1	95.30
#100-99 PREFABRICATED PLENUM		
PLENUM HEIGHT	PRICE PER INCH OF GIRTH	
TO 30"	.52	
TO 36"	.60	
EXAMPLE: Plenum = 20 x 20 x 30 High		
Girth = 20 + 20 + 20 + 20 = 80		
80 x list Price		



Galvanized Flat Reducer



Galvanized Taper



Adjustable Rain Cap Galvanized



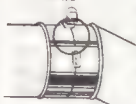
FRESH AIR INTAKE

SIZE	NO PER CARTON	LESS CTN	FULL CTN
#602-58 & #502-20 REDUCERS AND INCREASERS			
4" x 3"	12	5.16	4.60
5" x 4"	12	5.16	4.60
6" x 3"	12	5.42	4.82
6" x 4"	12	5.42	4.82
6" x 5"	12	5.42	4.82
7" x 5"	12	5.88	5.24
7" x 6"	12	5.88	5.24
8" x 5"	12	6.08	5.42
8" x 6"	12	6.08	5.42
8" x 7"	12	6.08	5.42
9" x 6"	12	6.80	5.78
9" x 8"	12	6.80	5.78
10" x 6"	12	6.84	6.10
12" x 6"	12	8.84	7.88
#600-5734 ADJUSTABLE RAIN CAP GALVANIZED			
3" - 4½"	12	5.88	5.24
5" - 6½"	12	7.88	7.02
7" - 9"	12	12.08	10.74
10" - 11½"	12	13.46	12.00
#444 FRESH AIR INTAKE			
6"	12	11.22	10.00

$$= 18-52$$

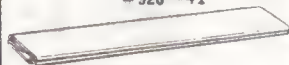

Dampers

29



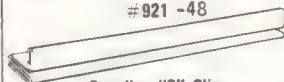
Draw Band Connectors

920 -41



"S" Clips

#921 -48



Standing "S" Clip

±922 -40



Drive Clip

924



Plenum Corner

#18-52 DAMPERS

SIZE	NO PER CARTON	LESS CTN	FULL CTN
6"	12	1.54	1.38
8"	12	3.00	2.68

#29 DRAW BAND CONNECTORS

6"	24	2.28	2.04
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#920-41 "S" CLIPS

12"	100	.58	.52
14"	100	.62	.56
16"	100	.68	.62
20"	100	.74	.66
60"	25	2.18	1.94

#921-48 STANDING "S" CLIP

60"	50	4.50	4.00
-----	----	------	------

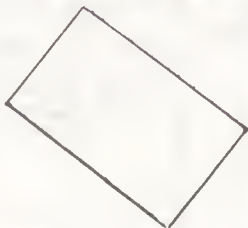
#922-40 DRIVE CLIP

8"	100	.32	.28
18"	100	.58	.52
30"	100	1.16	1.02

#924 PLENUM CORNER

60"	50	5.24	4.66
-----	----	------	------

GALVANIZED FLAT SHEETS



DESCRIPTION	PRICE PER SHEET		
	1-10	11-25	26-100
26 GA 36" x 96" GALV SHEET	22.30	20.34	18.96
28 GA 36" x 96" GALV SHEET	19.40	17.68	16.50

32



Horizontal Draft Diverter

33



Vertical Draft Diverter

34



Square Draft Diverter

9-50



Cleanout Cap

SIZE		EACH	
#32 HORIZONTAL DRAFT DIVERTER			
5"		18.52	
6"		22.44	
7"		30.40	
8"		38.10	
#33 VERTICAL DRAFT DIVERTER			
5"		12.72	
6"		15.34	
7"		21.30	
8"		38.10	
# 34 SQUARE DRAFT DIVERTER			
5"		17.46	
6"		20.86	
7"		28.14	
8"		37.38	
#9-50 CLEANOUT CAP			
SIZE	NO PER CARTON	LESS CTN	FULL CTN
5"	12	3.30	2.94
6"	12	3.30	2.94
7"	12	3.74	3.34
8"	12	4.18	3.72
9"	12	4.64	4.14
10"	12	5.12	4.56
12"	12	5.60	4.98

METALFLEX[®]

FLEXIBLE ALUMINUM VENTING

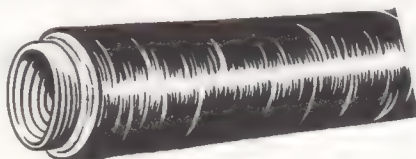
Flexible
Aluminum Duct



NOT
INSULATED

Size	Catalog No.	Quantity		1-5	6+
3" x 8'	V-100-3	1	All diameters	8.34	7.56
4" x 8'	V-100-4	1	and lengths	10.66	9.64
6" x 8'	V-100-6	1	are com- pressed to	15.68	14.20
8" x 8'	V-100-8	1	30 inches	21.52	19.48
10" x 8'	V-100-10	1	for shipping and storage	28.62	25.92

Flexible
Aluminum Duct



INSULATED

Size	Catalog No.	Quantity		1-5	6+
6" x 8'	V-200-6	---		29.84	27.00
8" x 8'	V-200-8	---	Grey	39.42	35.70
10" x 8'	V-200-10	---	Vinyl	53.40	48.34
12" x 8'	2A1296C77	---		65.04	58.88

Branch Take-Off	12BTO-126
1 - 11	12 +
\$ 8.16	\$ 7.40

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND
CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

#115-A



Snaplock Aluminum Pipe

#120-A

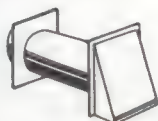


Aluminum Elbow

504-A



ALUMINUM INCREASER



Vent Hood



Flexible Tubing

SIZE	NO PER CARTON	LESS CTN	FULL CTN
#115A- 2FT ALUMINUM PIPE			
3"	25	2.80	2.54
4"	25	2.84	2.58
#120A ALUMINUM ELBOW			
3"	12	2.58	2.33
4"	12	2.72	2.46
#504A ALUMINUM INCREASER			
3" x 4"	12	2.60	2.34
VENT HOOD			
3"	24	3.80	3.44
4"	24	3.80	3.44
FLEXIBLE TUBING			
3" x 20'	6	19.40	17.60
4" x 20'	6	19.40	17.60



MODEL AOBD AUTOMATIC OPPOSED BLADE DAMPER
MODEL *AOBD-BM BOTTOM MOUNT DAMPER
MODEL IOBD INTERNAL OPPOSED BLADE DAMPER
... ALL ABOVE COMPLETE WITH THERMOSTAT

WIDE	HIGH					
	4"	6"	8"	10"	12"	14"
8	148.00	148.00	148.00			
10	152.00	152.00	152.00	164.00		
12	154.00	154.00	154.00	174.00	176.00	
14	158.00	158.00	158.00	176.00	180.00	186.00
16	162.00	162.00	162.00	178.00	182.00	192.00
18	164.00	164.00	164.00	182.00	186.00	194.00
20	166.00	166.00	166.00	186.00	192.00	198.00
22	170.00	170.00	170.00	192.00	194.00	210.00
24	174.00	174.00	174.00	194.00	200.00	216.00
26	176.00	176.00	176.00	202.00	210.00	224.00
28	178.00	178.00	178.00	210.00	216.00	226.00
30	180.00	180.00	180.00	220.00	224.00	234.00

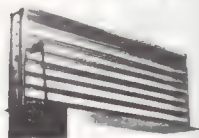
*NOTE: Bottom Mount Damper is only available in sizes up to 20" wide

Other stock sizes 16x16 210.00 18x18 222.00 20x20 236.00



MODEL AOBD
Automatic Opposed Blade Damper

Motorized extruded aluminum air valve damper. Motor actuator and mounting plate are positioned on side of damper. Installation simply requires cutting a three inch opening in the side of the duct, inserting damper and securing with sheet metal screws



MPFAD-MULTI POSITION FRESH AIR DAMPER

This motorized opposed blade damper is supplied completely factory assembled, and ready for insertion into the Fresh Air Intake Duct. The damper is operated by a powerful low voltage (24 volt) 5 position motor that is controlled by a remote control switch that allows the damper to be set in any of five positions; CLOSED - 25% - 50% - 75% and 100% OPEN. For more precise control of Fresh Air Intake, a second proportioning damper may be inserted into the return air duct to correspondingly control the flow of return air in proportion to the opening of the fresh air damper

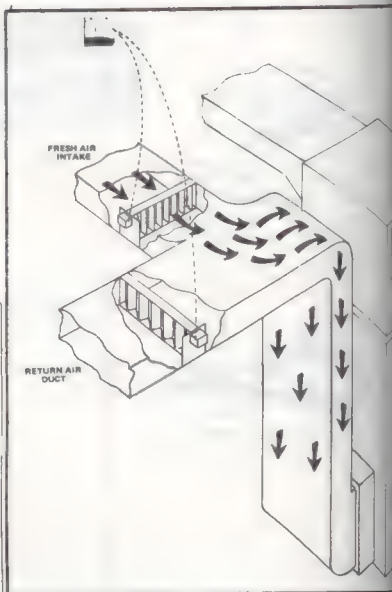
MODEL MPFAD **ALL COMPLETE**
MODEL MPFAD-BM (BOTTOM MOUNT) **WITH**
MODEL MPFAD-IOBD **DAMPER CONTROLLER**

NOTE: To simultaneously control two dampers from a single switch one for Fresh Air Intake, and the other for control of Return Air Flow; Specify when ordering, "with DC-2" (Damper Controller-2 unit.) When ordering double units in this manner, utilizing the DC 2 Controller, you may deduct \$10.00 from the Price of one damper.

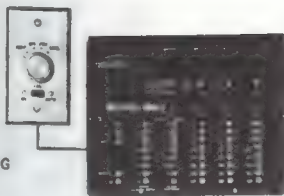
WIDE	HIGH					
	4"	6"	8"	10"	12"	14"
8	162.00	162.00	162.00			
10	172.00	172.00	172.00	180.00		
12	174.00	174.00	174.00	186.00	192.00	
14	176.00	176.00	176.00	188.00	194.00	196.00
16	180.00	180.00	180.00	190.00	196.00	198.00
18	182.00	182.00	182.00	194.00	198.00	200.00
20	186.00	186.00	186.00	198.00	200.00	202.00
22	190.00	190.00	190.00	200.00	204.00	208.00
24	192.00	192.00	192.00	210.00	216.00	220.00
26	196.00	196.00	196.00	216.00	224.00	230.00
28	204.00	204.00	204.00	218.00	230.00	244.00
30	210.00	210.00	210.00	230.00	240.00	250.00

Other stock sizes - 16x16 214.00 18x18 234.00 20x20 250.00

MODEL MPFAD MULTI-POSITION FRESH AIR DAMPER COMPLETE WITH DAMPER CONTROLLER



**MODEL MABS-V
MASTERTROL
MARK V
AUTOMATIC
BALANCING
SYSTEM for
HEATING-COOLING
SYSTEMS**



The ultimate in Zone Controlled Comfort is provided by the Mastertrol Mark V System that automatically opens all zone dampers when all zones are satisfied so that the fan may be operated continuously, or as desired. This feature also eliminates the need for providing a dump zone on most systems. A slide switch on each zone allows any one or more zones to be cut in or out of the Automatic Open Circuit so that when desired the damper will remain closed unless the zone thermostat is calling for heating or cooling. The Mastertrol panel reverses the action of all zone thermostats and switches the system to HEAT-OFF-FAN-COOL cycle as set on the remote control Selector Switch which is included with panel.

MABS-V-2 zone	\$180.00	MABS-V-5 zone	\$300.00
MABS-V-3 zone	200.00	MABS-V-6 zone	320.00
MABS-V-4 zone	280.00		

**MODEL MARK VII
ZONE CONTROLLED - HEATING AND COOLING
OR NO ZONES ON COOLING CYCLE**

Designed to meet the requirements of special installations, where due to existing ductwork design or size there is a possibility of coil freeze-up because of inadequate air movement.

The MARK VII MASTERTROL PANEL provides a slide switch in the upper left-hand corner, marked Zone Controlled Cooling - Off and On. With the slide switch in the "On" position, the MARK VII Panel works like any Mastertrol Panel providing Zone Control of the System on both Cooling and Heating Cycle. With the slide switch in the "Off" position, only the Zone 1 thermostat controls the system, and all other zone dampers remain open so that the system operates on cooling cycle as though there were no zones in the system.

LIST PRICE - ADD \$30.00 to the price of MABS-V
AVAILABLE UP TO 6-ZONES.

**MODEL MABS VIII
MASTERTROL MARK VIII FOR 2-STAGE HEAT-COOL**

Provides the basic Mastertrol functions on 2-stage heat-2-stage cool systems. Will accommodate either a single stage or a 2-stage thermostat on any or all zones. When used with 2-stage thermostats, first and second stages of heating or cooling are brought on by demand of any one thermostat.

*Note - for each zone using 2-stage stat, order Model HCT-2S thermostat. Order damper for that zone, less thermostat.

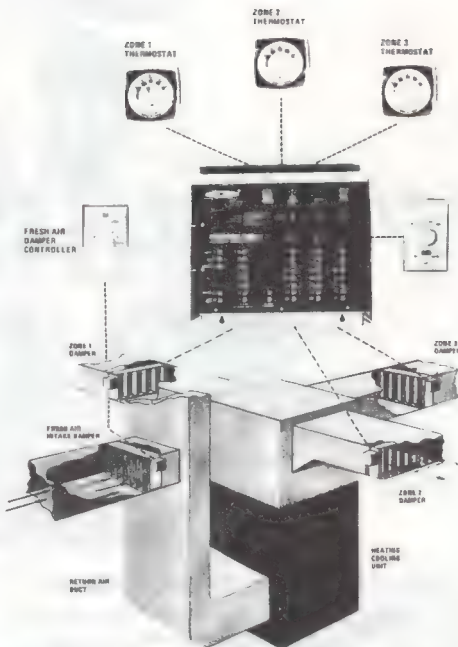
ZONES		
2 \$230.00	6 \$370.00	10 \$730.00
3 250.00	7 550.00	11 750.00
4 330.00	8 570.00	12 770.00
5 350.00	9 710.00	

MASTERTROL MARK X

The Mastertrol Mark X provides the basic functions of the Mark V Panel described above, but is designed with certain features that are required on larger systems where many zones are involved. Mark X panels may be installed in multiples so as to accommodate any number of zones.



MABSX-7 - 7 zone	\$500.00	MABSX-10 - 10 zone	\$680.00
MABSX-8 - 8 zone	520.00	MABSX-11 - 11 zone	700.00
MABSX-9 - 9 zone	660.00	MABSX-12 - 12 zone	720.00



MASTERTROL MARK XXXI - FOR HEAT PUMP SYSTEMS

MARK XXXI Mastertrol Panels provide controls for actuating the compressor, reversing valve, fan, emergency heat and second stage heat. A 2-stage heating-cooling thermostat is required to control each zone where the second stage of heat is desired. Single stage thermostats may be used for other zones. The System Selector Switch furnished with MARK XXXI Mastertrol provides an Emergency Heat Switch and Indicator Light.



MABS XXXI-2	\$230.00
MABS XXXI-3	250.00
MABS XXXI-4	330.00
MABS XXXI-5	350.00
MABS XXXI-6	370.00
MABS XXXI-7	390.00
MABS XXXI-8	570.00
MABS XXXI-9	710.00
MABS XXXI-10	730.00
MABS XXXI-11	750.00
MABS XXXI-12	770.00

NOTE: Automatic Change-Over is not available for Heat Pump Systems using the Mark XXXI Mastertrol Panel.

AUTOMATIC CHANGE-OVER

All Mastertrol Control Panels are furnished with a manually operated "SYSTEM SELECTOR SWITCH" which allows the system to be placed in HEAT - OFF - FAN or COOL Cycle.

IF AUTOMATIC CHANGE-OVER is required, the Model MIOSS and MIOA, as described on the right can be used.

WARNING: With Automatic Change-Over all zone thermostats should be set at similar temperatures or erratic system performance can occur when system is automatically changed over.

NOTE: "AUTOMATIC CHANGE-OVER" IS NOT AVAILABLE FOR (HEAT PUMP SYSTEMS) USING THE MARK XXXI MASTERTROL PANEL.

TJERNLUND



IN-LINE MODELS



Fan Proving Switch

DESCRIPTION Motors listed are standard. Other types by special quotation.	MODEL	EACH
STANDARD UNIT 115 10 - 1/70 HP Open	DJ-2	\$ 84.00
STANDARD UNIT 115/10 - 1/20 HP Open Stainless Steel Wheel	D-2	170.00
STANDARD UNIT 115/1/60 - 1/4 HP Open ADD FOR: Stainless Steel Wheel	I	282.00 65.00
STANDARD UNIT 115 1 60 - 1/2 HP Open ADD FOR: Stainless Steel Wheel	IL	322.00 90.00
STANDARD UNIT 115/230/10 - 3/4 ADD FOR: Stainless Steel Wheel	XL	560.00 90.00
STANDARD UNIT 115/1/60 - 1/2 HP Open ADD FOR: Stainless Steel Wheel Specify Flat or Round Pipe Mounting	I-R	700.00 65.00
STANDARD UNIT 115/1/60 - 1 3 HP Open ADD FOR: Stainless Steel Wheel	IL-R	840.00 80.00
STANDARD UNIT 115-230/1/60-1/2 HP Open ADD FOR: Stainless Steel Wheel Specify Flat or Round Pipe Mounting	XL-R	1080.00 90.00
STANDARD UNIT 230-460/3/60-2 HP Open ADD FOR: Stainless Steel Wheel Specify Flat or Round Pipe mounting	HD	1200.00 130.00
FAN PROVING SWITCH	PS 1505	49.50

DUCT BOOSTERS



MODEL	EACH
DB-2	\$ 73.00
DB-2 DUCT AIR STAT For Heating & Cooling	35.00



SMOKE PULLER

CHIMNEY TOP DRAFT INDUCER
FOR FIRE PLACES

Model	EACH
CT 8 with speed control	\$ 488.00
CT 10 with speed control	704.00
CT 12 with speed control	786.00
Weathervane	43.50



New
Auto-Draft For Wood Burning Stoves

Model	EACH
AD-1	\$ 196.00

NOW! ROOF-TOP COMPATIBILITY with METAL-FAB (MCU)



IT'S TAPERED TO
FIT ANY SINGLE
WALL PIPE.

UNIVERSAL
Windcap

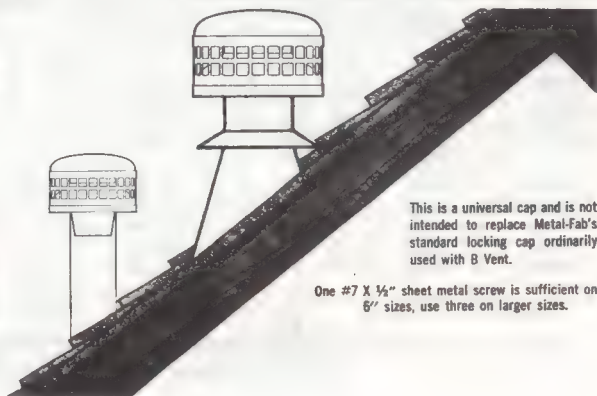
U. L. LISTED

You can have "ROOF-COMPATIBILITY" with Metal-Fab's universal "Single-Wall" *Windcap* for cook-top hoods — power vents — plumbing vents — etc. Used with Metal-Fab's good-looking Gas Vent Cap, the universal *Windcap* will give you the best looking roof in town. Same price as the Gas Vent Cap thru 8".

NUMBER	SIZE	BASE	HEIGHT	CAP DIA.	A	B	EACH
4 MCU	4"	3 $\frac{3}{4}$ "	8 $\frac{1}{4}$ "	8 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "	3"	\$ 7.98
5 MCU	5"	4 $\frac{3}{4}$ "	9 $\frac{3}{8}$ "	10"	1 $\frac{1}{4}$ "	3 $\frac{1}{2}$ "	11.02
6 MCU	6"	5 $\frac{3}{4}$ "	10 $\frac{1}{2}$ "	12"	1 $\frac{3}{8}$ "	4 $\frac{1}{4}$ "	14.20
7 MCU	7"	6 $\frac{5}{8}$ "	10 $\frac{7}{8}$ "	13 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	19.68
8 MCU	8"	7 $\frac{1}{2}$ "	11 $\frac{7}{8}$ "	15"	1 $\frac{7}{8}$ "	2 $\frac{1}{8}$ "	25.12

Fits inside ANY type or make of gas vent pipe and insures proper vent control even during the most extreme turbulence and wind conditions.

METAL-FAB INC.
MANUFACTURER OF PRODUCTS
FOR ENVIRONMENTAL SYSTEMS



This is a universal cap and is not intended to replace Metal-Fab's standard locking cap ordinarily used with 8 Vent.

One #7 X 1 $\frac{1}{2}$ " sheet metal screw is sufficient on 6" sizes, use three on larger sizes.

FLASHING TALL — ADJUSTABLE				DRAFT HOOD CONNECTOR			
CAT NO	PIPE SIZE	CTN	EACH	CAT NO	PIPE SIZE	CTN	EACH
4MF	4" ADJ	12	\$ 5.50	4MDC	4"	6	\$ 3.14
5MF	5" ADJ	12	9.32	5MDC	5"	6	3.62
6MF	6" ADJ	12	13.16	6MDC	6"	6	4.10
7MF	7" ADJ	12	16.16	7MDC	7"	4	5.60
8MF	8" ADJ	12	16.96	8MDC	8"	4	6.56
				VENT COLLAR			
4MFT	4" TALL	12	10.52	4MVC	4"	24	\$ 1.80
5MFT	5" TALL	12	13.66	5MVC	5"	24	1.84
6MFT	6" TALL	12	17.56	6MVC	6"	24	1.84
7MFT	7" TALL	12	19.78				
8MFT	8" TALL	12	21.22				
PARTITION THIMBLE				VENT INCREASER			
4MPT	4"	6	\$ 7.88	4MI5	4" TO 5"	6	\$ 11.04
5MPT	5"	6	7.88	5MI6	5" TO 6"	6	11.52
6MPT	6"	6	9.96	6MI7	6" TO 7"	6	12.98
7MPT	7"	6	14.28	7MI8	7" TO 8"	6	15.10



FLUE PIPE KIT



OVAL
FLUE PIPE



ADJUSTABLE
FLUE PIPE



OVAL-ROUND
ADAPTER



ROUND-OVAL
ADAPTER



45°
OVAL
TEE



45° FLAT TEE

OVAL — ROUND ADAPTER			
4MOR	4"	6	\$ 9.74
6MOR	6"	6	16.60
ROUND — OVAL ADAPTER			
4MRO	4"	6	9.74
6MRO	6"	6	16.60
45° • OVAL			
4MO45S	4"	6	13.84
6MO45S	6"	6	30.76
45° • FLAT			
4MO45F	4"	6	13.84
6MO45F	6"	6	30.76

CAT NO	DIAM	LGTH	CTN	EACH
4MO5	4" OVAL	5'	6	\$ 26.18
4MO4	4" OVAL	4'	6	21.32
4MO3	4" OVAL	3'	6	16.18
4MO24	4" OVAL	2'	6	12.16
4MO12	4" OVAL	1'	6	7.28
6MO5	6" OVAL	5'	4	38.60
6MO4	6" OVAL	4'	4	31.76
6MO3	6" OVAL	3'	6	24.24
6MO24	6" OVAL	2'	6	16.66
6MO12	6" OVAL	1'	6	12.46

ROUND
FLUE PIPEADJUSTABLE
FLUE PIPEVENT
INCREASER

CAP

ROUND
FLASHINGPARTITION
THIMBLEROUND
TEE90°
ELBVENT
COLLAR**TYPE-B
GAS VENT
PIPE & FITTINGS**ROUND
STORM COLLAR**ROUND FLUE PIPE**

CAT NO	DIAM	LGTH	CTN	EACH
4M5	4"	5'	6	\$ 20.78
5M5	5"	5'	6	24.60
6M5	6"	5'	4	28.34
7M5	7"	5'	4	41.46
8M5	8"	5'	4	47.36
4M4	4"	4'	6	17.42
5M4	5"	4'	6	20.46
6M4	6"	4'	6	23.80
7M4	7"	4'	4	34.74
8M4	8"	4'	4	39.22
4M3	4"	3'	6	13.20
5M3	5"	3'	6	15.74
6M3	6"	3'	6	18.20
7M3	7"	3'	4	26.64
8M3	8"	3'	4	29.82
4M24	4"	2'	6	9.70
5M24	5"	2'	6	11.98
6M24	6"	2'	6	14.18
7M24	7"	2'	4	20.62
8M24	8"	2'	4	22.42
4M18	4"	18"	6	7.28
5M18	5"	18"	6	8.72
6M18	6"	18"	6	10.28
7M18	7"	18"	4	14.83
8M18	8"	18"	4	16.60
4M6	4"	6"	6	4.08
5M6	5"	6"	6	4.90
6M6	6"	6"	6	5.70

ROUND FLUE PIPE

CAT NO	DIAM	LGTH	CTN	EACH
4M12	4"	12"	6	\$ 6.14
5M12	5"	12"	6	7.38
6M12	6"	12"	6	8.54
7M12	7"	12"	4	11.28
8M12	8"	12"	4	13.24
90° ELBOW				
CAT NO	PIPE SIZE		CTN	
4M90	4"		6	\$ 17.50
5M90	5"		6	20.64
6M90	6"		6	24.78
7M90	7"		4	35.68
8M90	8"		4	38.10
ALUMINUM CAP				
4MC	4"		12	\$ 8.24
5MC	5"		12	11.36
6MC	6"		12	14.62
7MC	7"		12	20.30
8MC	8"		12	
ROUND STORM COLLAR				
4MSC	4"		12	\$ 1.32
5MSC	5"		12	3.42
6MSC	6"		12	3.62
7MSC	7"		12	3.84
8MSC	8"		12	4.08

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND
CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

ALL-FUEL CHIMNEYS

6" 8"

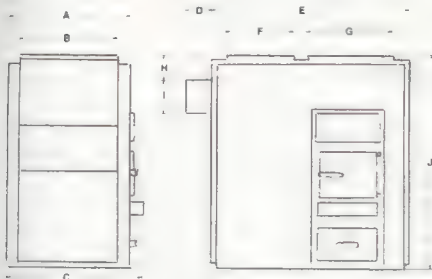
ITEM	DESCRIPTION	CATALOG NUMBER	EACH	CATALOG NUMBER	EACH
PIPE	30" LENGTH	6C-30	46.28	8C-30	68.60
	18" LENGTH	6C-18	28.14	8C-18	42.06
SUPPORTS	STARTING SUPPORT	6C-SS	18.32	8C-SS	23.40
	WALL SUPPORT	6C-WS	31.78	8C-WS	43.66
	CEILING SUPPORT	6C-CS	45.36	8C-CS	59.76
	WALL BRACKET	6C-WB	12.02	8C-WB	13.26
	FIREPLACE ADAPTER	6C-FPA	17.22	8C-FPA	27.66
	ROOF SUPPORT	6C-RS	22.16	8C-RS	32.88
FITTINGS AND ACCESSORIES	WALL PLATE	6C-WP	8.78	8C-WP	10.70
	FIRESTOP ASSEMBLY	6C-FSA	13.16	8C-FSA	18.04
	INSULATED TEE W/CAP	6C-T	78.32	8C-T	118.82
	15° ELBOW	6C-15	38.16	8C-15	49.98
	DRIP TEE W/CAP	6C-DT	26.72	8C-DT	41.40
	CEILING COVER PLATE	6C-CCP	16.22	8C-CCP	16.22
ROOF TOP COMPONENTS	RAIN CAP	6C-RC	30.54	8C-RC	42.34
	RAIN CAP-OPEN TOP	6C-RCO	22.92	8C-RCO	30.90
	FLASHING COLLAR	6C-FC	3.82	8C-FC	5.54
	ADJ. FLASHING 0/12-6/12	6C-F	17.74	8C-F	23.86
	ADJ. FLASHING 7/12-10/12	6C-F10	35.10	8C-F10	46.44
	ADJ. FLASHING 11/12-15/12	6C-F15	35.10	8C-F15	46.44
	TALL CONE FLASHING	6C-TF	20.62	8C-TF	28.72
UTILITY KIT (1 CTN.)	STARTING SUPPORT, ADJ. FLASHING TO 6/12 RAIN CAP, FLASHING COLLAR	6C-UK	70.38	8C-UK	95.14
HOUSINGS W/ WEATHER CAP	18" x 18" RED BRICK 3' HIGH	6C-3RH	105.44	8C-3RH	114.04
	18" x 18" RED BRICK 4' HIGH	6C-4RH	115.54	8C-4RH	124.14
	18" x 18" RED BRICK 5' HIGH	6C-5RH	125.62	8C-5RH	134.22

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND
CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

YUKON

Money-saving wood, wood/oil and wood/gas combination furnaces

DIMENSIONS



MODEL	A	B	C	D	E	F	G	H	I	J
HUSKY	30"	24"	33 1/2"	6"	56"	20"	24"	6"	8"	50 1/4"
POLAR	30"	24"	33 1/2"	5"	60"	20"	24"	11"	8"	61 1/2"
WOOD ELECTRIC	30"	24"	33 1/2"	5 1/2"	53"	16"	20"	2 1/4"	8"	50 1/4"
KLONDIKE	30"	24"	33 1/2"	6"	46"	16"	20"	6"	8"	50 1/4"

The Yukon Wood Electric is a 20 KW four-stage combination furnace which offers both the convenience of electricity and the economy of wood. Depending on geographic location and proper insulation, this furnace can comfortably heat homes up to 3,000 sq. ft.

The Yukon Husky is a combination fuel furnace that can comfortably heat properly insulated homes up to 3,000 sq. ft. Available in wood coal oil and wood coal gas.

The Yukon Klondike operates alone as an efficient woodburning furnace or can be used as an add-on in conjunction with an existing oil, gas or electric furnace. The Klondike can comfortably heat properly insulated homes up to 3,000 sq. ft.

The Yukon Polar is Yukon's largest capacity furnace which can comfortably heat properly insulated homes up to 4,000 sq. ft. It features 22% more heat exchanger surface than the Husky. Available in wood coal oil and wood coal gas.

Operation is this easy, this convenient:

- 1 Load Wood.** Place three or four 6" to 8" diameter logs in the firebox. Automatic controls will now take over. As the fire burns down, add more wood the same way.
- 2 Set Thermostat.** The two-stage thermostat controls both wood and gas or oil fire simultaneously. Just set the thermostat to start burner and ignite wood. The oil or gas fire comes back on automatically if wood fire burns too low.
- 3 Automatic Control.** When the furnace is supplying the comfort called for by the thermostat, the oil or gas burner automatically shuts off. The wood fire is then automatically controlled by the thermostat.
- 4 Constant Room Temperature.** The thermostat automatically maintains heat levels by controlling the amount of draft to the wood fire.
- 5 Automatic Oil/Gas Fire.** If wood fire dies down and room temperature drops below thermostat settings, the oil gas burner automatically re-ignites. The Yukon then functions as a conventional furnace until you re-load it with wood.
- 6 Hand Firing.** If you choose not to use the oil gas burner for automatic ignition of the wood fire, you can light the Yukon with kindling as you would an ordinary fireplace.

SPECIFICATIONS

MODEL	HUSKY LWO 85	HUSKY LWO 100	HUSKY LWO 112	POLAR LWO 151	POLAR LWO 168	WOOD ELECTRIC	KLONDIKE
BTU Input	106,000	125,000	140,000	189,000	210,000	68,260 20 KW	175,000 Max
Fuel	Available in Wood/oil or Wood gas	Available in Wood/oil or Wood gas	Available in Wood/oil or Wood gas	Wood/oil or Wood/gas	Wood/oil or Wood/gas	Wood/Electric	Wood
BTU Output	85,000	100,000	112,000	151,000	168,000	68,260	131,000 Max
Nozzle	75 (80H)	90 (80H)	100 (80H)	135 GPH	15 GPH	N/A	N/A
Blower Size	10" x 10"	10" x 10"	10" x 10"	12" x 12"	12" x 12"	10" x 10"	10" x 10"
Motor Size	1 3 HP	1 3 HP	1 3 HP	1 3 HP	1 3 HP	1 3 HP	1 3 HP
Blower CFM	800-1400	800-1400	800-1400	1200-1800	1200-1800	800-1400	800-1400
Lining	Firebrick	Firebrick	Firebrick	Firebrick	Firebrick	Firebrick	Firebrick
Grates	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron
Wood Chamber	24" x 16"	24" x 16"	24" x 16"	24" x 18"	24" x 18"	24" x 16"	24" x 16"
Fire Door	10" x 10"	10" x 10"	10" x 10"	13 1/4 x 13 1/4"	13 1/4 x 13 1/4"	10" x 10"	10" x 10"
Air Filter Cabinet	20x25x1 Insulated	20x25x1 Insulated	20x25x1 Insulated	20x25x1 Insulated	20x25x1 Insulated	Field-Installed in Plenum Insulated	20x25x1 Insulated
Chimney Flue				Available left or right outlet			
Shipping Weight		869 lbs.		1,072 lbs.		875 lbs.	720 lbs.
Heat Exchanger		63 sq. ft.		81 sq. ft.		58 sq. ft.	53 sq. ft.
Secondary Air System	yes	yes	yes	yes	yes	yes	yes
EACH	\$ 3,235	3,398	3,398	3,560	3,717	3,717.00	2,220.00

W-O W-G

W-O W-G

A-C Controls Add \$ 87.50

3 1/2 \$ 4 Ton Motor Add \$ 50.00

4 1/2 & 5 Ton Motor Add \$ 150.00

F.O.B. So Holland, Ill

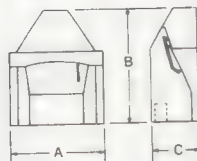
heatilator®

AMERICA'S LEADING FIREPLACE SYSTEMS

BUILDING SPECIALTIES

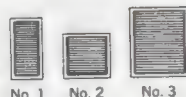
MARK C CIRCULATING FIREPLACE UNITS

CAT. NO.	FINISHED OPENING		OVERALL DIMENSIONS			APPX. CU. FT.	PRICE (WITHOUT GRILLES)
	WIDTH	HEIGHT	A	B	C		
34	32"	26"	39½	50	19½	19.6	472.60
38	36"	28"	45½	52½	21½	26.3	572.90
42	40"	30"	51	56	23½	35.6	717.40
50	48"	32"	61½	62½	26	52.0	991.10
62	60"	36"	74¾	69	27½	76.3	1547.00



INTAKE & OUTLET GRILLES (Packed 4 per carton)

CAT. NO.	FACE	HOUSING	APPX. CU. FT.	PRICE
For use with units #30, 34, 38 and 42				
5001	5¾" x 10¾"	5¼" x 10¼"	.4	14.96
5002	8¾" x 8¾"	8" x 8"	.6	14.96
For use with units #50 and 62				
5003	8¾" x 10¾"	8" x 10"	.6	18.70



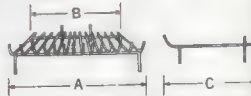
ELECTRIC FAN GRILLES (Packed 2 per carton. Appearance same as intake & outlet)

CAT. NO.	GRILLE SIZES ARE SAME AS ABOVE 110 VOLT 60 CYCLE A.C. MOTOR	APPX. CU. FT.	PRICE
5001F X	Without Plug—For Internal Wiring	.6	78.20
5002F X	Without Plug—For Internal Wiring	.6	78.20
5003F X	Without Plug—For Internal Wiring	.6	82.46



FIREPLACE GRATES

CAT. NO.	DIMENSIONS			USE WITH FIREPLACE	APPX. CU. FT.	PRICE
	A	B	C			
26	26"	21"	13"	#34	.4	40.80



ASH DUMPS/CLEANOUT DOORS (*package of 6 only)

CAT. NO.	OVERALL SIZE	DUMP SIZE	APPX. CU. FT.	PRICE
5011	7" x 10"	4" x 8"	.3	11.06
5016	10" x 10"	8½" x 8½"	.8	17.00



OUTSIDE AIR KIT

CAT. NO.	DESCRIPTION	APPX. CU. FT.	PRICE
40AK	Outside Air Kit	.4	80.76



heatilator®

AMERICA'S LEADING FIREPLACE SYSTEMS

fireplaces, starter sections, components, roof terminations

IMPORTANT: Fireplace prices do not include starter section.

Cat No	Description	Price	Cat No	Description	Price
3138 E.P. / 3038 O.A. & ACCESSORIES			FIREPLACES		
3138 E.P.	38" Open Front Heat Circulating Fireplace w/Fan Kit (use 9" I.D. Chimney)	1276.80	3028	28" Open Front Fireplace (use 7" I.D. Chimney)	649.60
3038 O.A.	38" Open Front Fireplace with Standard Outside Air Kit (use 9" I.D. Chimney)	830.40	3036	36" Open Front Fireplace (use 9" I.D. Chimney)	715.20
3140 A.K.	Outside Air Kit for 3138 E.P. Fireplace	75.20	3042	42" Open Front Fireplace (use 9" I.D. Chimney)	910.40
3141 H.B.	Side Panels and Grate	84.80			
3938	9" I.D. Firestop Spacer for 3138 E.P. / 3038 O.A.	22.80			
3940	9" I.D. 15" Oval Firestop Spacer for 3138 E.P. / 3038 O.A.	40.40			
3942	9" I.D. 30" Oval Firestop Spacer for 3138 E.P. / 3038 O.A.	44.00			
3606 EP	Fireplace Outlet Duct - 6" Length	14.80			
3612 EP	Fireplace Outlet Duct - 12" Length	18.40			
3618 EP	Fireplace Outlet Duct - 18" Length	24.00			
3670 EP	Fireplace Outlet Duct - Adj. Length 0"-12"	19.20			
3680 EP	Fireplace Outlet Duct - Partition Thimble	19.20			
3690 EP	Fireplace Outlet Duct - Adj. Elbow 0°-90°	43.20			
STARTER SECTIONS, OFFSETS & FIRESTOP SPACERS			MARK 123		
712	7" I.D. 2" Chimney/Starter Section	64.80	912	9" I.D. 2" Chimney/Starter Section	73.60
3738FS	7" I.D. Standard Firestop Spacer	22.00	3932	9" I.D. Standard Firestop Section	16.80
3715	7" I.D. 15" Starter Offset & Return (1 ea./ctn.) Pr	77.60	3915	9" I.D. 15" Starter Offset & Return (1 ea./ctn.) Pr	82.40
3716	7" I.D. 15" Oval Firestop Spacer	30.80	3916	9" I.D. 15" Oval Firestop Spacer	20.80
3730	7" I.D. 30" Starter Offset & Return (1 ea./ctn.) Pr	127.60	3930	9" I.D. 30" Starter Offset & Return (1 ea./ctn.) Pr	143.20
3731	7" I.D. 30" Oval Firestop Spacer	36.80	3931	9" I.D. 30" Oval Firestop Spacer	22.80
CHIMNEY SECTIONS, HEARTH EXTENSIONS & COMPONENTS			MARK 123		
5706 GS	7" I.D. 6" Chimney Section (4)	32.80	5906 GS	9" I.D. 6" Chimney Section (4)	38.40
711 GS	7" I.D. 1" Chimney Section	42.40	912	9" I.D. 2" Chimney Section	73.60
712	7" I.D. 2" Chimney Section	64.80	913	9" I.D. 3" Chimney Section	92.80
713	7" I.D. 3" Chimney Section	87.20	922	9" I.D. Joint Band (3 per ctn.) CTN	24.00
722	7" I.D. Joint Band (3 per ctn.) CTN	20.80	923	9" I.D. Chimney Bracket	33.60
723	7" I.D. Chimney Bracket	28.80	3900	Hearth Extension (#3036 3038 O.A. & 3138 E.P.)	123.20
19	Grate (#3028)	33.60	3902	Hearth Extension (#3042)	123.20
26	Grate (3036, 3042)	38.40	3700	Hearth Extension (#3028)	92.80
			600	Fan Inlet Kit (#3138)	133.60
ROOF TERMINATIONS			MARK 123		
5741 LP	Roof Flashing - Flat—6/12 (10)	27.20	5941 LP	Roof Flashing - Flat—6/12 (10)	38.40
5742 MP	Roof Flashing - 6/12—12/12 (5)	50.00	5942 MP	Roof Flashing - 6/12—12/12 (5)	68.00
743 HP	Roof Flashing - 12/12—24/12 (10)	93.20	943 HP	Roof Flashing - 12/12—24/12 (10)	125.60
5733 SC	Storm Collar	6.40	5933 SC	Storm Collar	8.80
725 TC	7" I.D. Terminal Cap	48.40	925 WS	9" I.D. Terminal Cap w/Spark Arrestor	67.20
725 WS	7" I.D. Terminal Cap w/Spark Arrestor	60.00	1461M	5" White Brick Single Housing Panels 18" x 18"	125.60
1441M	3" White Brick Single Housing Panels 18" x 18"	76.00	1462M	5" Red Brick Single Housing Panels 18" x 18"	125.60
1442M	3" Red Brick Single Housing Panels 18" x 18"	76.00	910	9" I.D. Slip Section (for use only with Housing Termination)	35.20
710	7" I.D. Slip Section (for use only with Housing Termination)	35.20			
1842 M	1" Single Housing Top (including Flashing, Windscreen & Rain Cap)	124.00			



TOTAL ENVIRONMENTAL EQUIPMENT CO.

16900 VAN DAM ROAD
SOUTH HOLLAND, ILLINOIS
60473

312/ 596-1212
596-1213

RESIDENTIAL

COMMERCIAL

INDUSTRIAL

SUPERIOR FIREPLACES

Model No. 1038	\$ 955.28	Model No. SHC-33.....	\$ 1,174.16
Model No. 1043	990.00	Model No. SHC-43.....	1,355.04
Forced Air Kit 160FAK-1 (1000 Units)			145.20
Forced Air Kit 100FAK-3 (SHC Units)			138.16
Class Door 38GD (38")			256.80
Glass Door 43GD (43")			296.32

PIPE & STARTER SECTION

AS 8-12"	\$ 30.40	AK 10-12"	\$ 39.92
AS 8-18"	41.60	AK 10-18"	52.32
AS 8-36"	67.52	AK 10-36"	84.32
AS 8-SS 10' To 8" Starter Section			53.52

FIRESTOP SPACER & STABILIZER

AS 8-FS	\$ 11.84	AK 10-FS	\$ 15.12
AS 8-S	39.92	AK 10-S	46.16

ELBOW

AS 8-30 30° Offset Elbow ...	\$ 49.52	AK 10-30 30° Offset Elbow .	\$ 69.52
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ROUND TOP

AS 8-CTD	\$ 68.96	AK 10-CTD	\$ 92.00
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FLASHING

FS 8-F6 0" To 6"	\$ 49.36	AK 10-F6 0" To 6"	\$ 59.28
AS 8-F12 6" To 12"	73.44	AK 10-F12 6" To 12"	87.44
(Includes Storm Collar)			

SIMULATED BRICK CHIMNEY HOUSING

AS 8 H-1 (8" Top).....	\$ 58.16	AK 10 H-1 (10" Top).....	\$ 96.72
AKH-1 FS (8" - 10" Flashing)			47.12
48" Panel (Red, White, Buff).....			56.08
66" Panel (Red, White, Buff).....			106.00
AS 8-H-2-48 (Double Flue Housing) 4'			297.28
AS 8-H-2-66 (Double Flue Housing) 5½'			388.72
AK 10-H-2-48 (Double Flue Housing) 4'			354.32
AK 10-H-2-66 (Double Flue Housing) 5½'			445.84

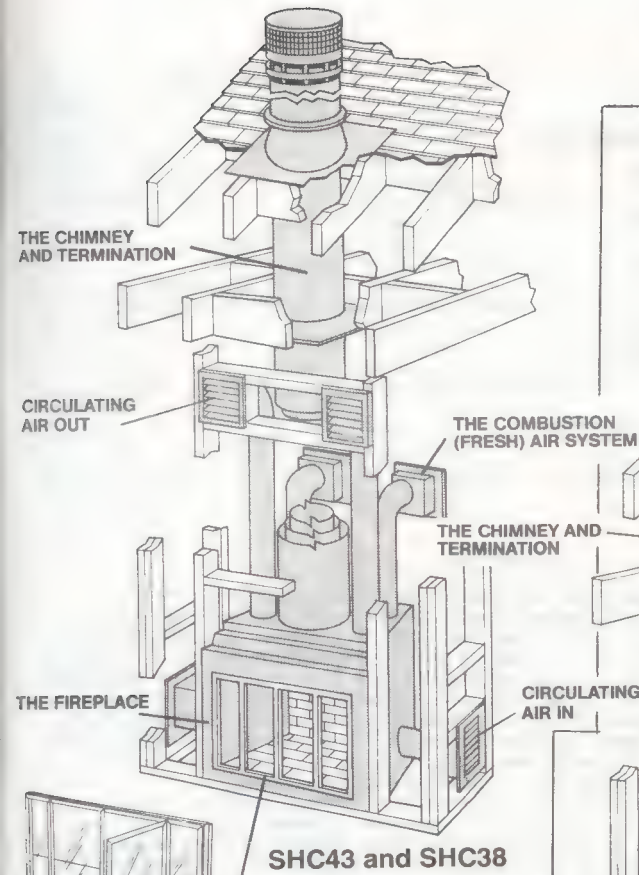
1 - Top, + Flashing, & Panel = 1 Complete Housing

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND
CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

SUPERIOR

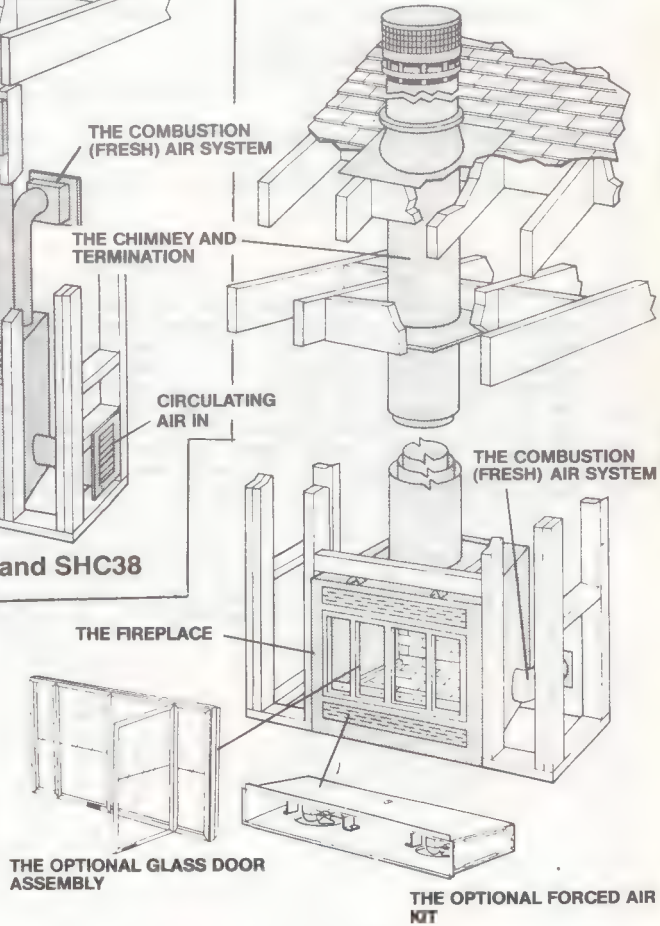
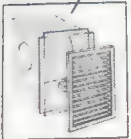
The Fireplace Company

Heat circulating models B1038 and B1043; 38" and 43" front opening fireplaces



THE OPTIONAL FORCED AIR BLOWER

Optional Forced Air Blower produces 250 cfm of air in lieu of (2) 8" x 6" gravity air inlets



TEECO

TOTAL ENVIRONMENTAL EQUIPMENT CO.

SOUTH HOLLAND, ILLINOIS
60473

312/596-1211
596-1213

RESIDENTIAL

COMMERCIAL

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PRICES

SOME PRICE CHANGES ALMOST EVERY DAY, IT IS IMPOSSIBLE TO KEEP OUR CUSTOMERS INFORMED ABOUT ALL PRICE CHANGES.

MERCHANDISE MUST BE BILLED AT PRICES IN EFFECT AT TIME OF SHIPMENT, PRICE REDUCTIONS WILL BE PASSED ON AS RECEIVED.

PLEASE ASK FOR CURRENT QUOTE.

WARRANTIES

All products in this catalog are represented as near as possible to the manufactures description and are Warranted by TEECO to the original purchaser for resale, or for use in business, and are guaranteed against defects in material and workmanship, (rental use excluded) in normal use for one year from date of purchase unless other wise stated by the manufacture. All product illustrations and descriptions are for sole purpose of identification, and do not express or imply a warranty that the products are merchantable or fit for any purpose. No warranty or affirmation of the fact express or implied other than set forth in this statement. TEECO'S liability is to replace or repair an in warranty part at TEECO'S place of business, TEECO'S limit of liability in all events is the original purchase price only.

No Consumers Warranties: TEECO makes no warranties to those defined as consumers in the Magnuson-Moss Warranty Federal Trade Commission Improvement Act.

Manufactures Warranties: Most of the products have a manufactures warranty to consumers. TEECO will supply copies of such warranties upon request. Request must include product name, model number, serial number and date of purchase. TEECO assumes no responsibility for warranty representations by manufactures.

DISTRIBUTORS — HEATING, COOLING, AIR CLEANING, HUMIDIFYING AND
CONTROLLING EQUIPMENT FOR HOME, OFFICE OR FACTORY.

A	A	A	C	C	C	E	E	E
A-Coils		5,7	Circulating Pumps		80	Emerson		160
A-Vent		149	Coil Cabinets		5	Empire		18
A/C Pads		32	Coil Cleaner		102	Epoxy		97
Access Valves		93,98	Coil Kits		8	Etcon		38
Adapt-A-Ease Kit		8	Cold Controls		53,64	Exhaust Fans		
Adjustable Wrench		110	Comfort Aire		3-17	Attic		81
Air Cleaners		2,25,27	Compressors		85,86	Bathroom		45
Air Conditioners Central		3,4,5	Concrete Pads		32	Explosion Proof		82
Air Conditioners Window		160	Condensate Fittings		32	Kitchen		46
Air Deflectors		119	Condensate Pipe		32	Whole House		83,84
Air Filters		28	Condensate Pumps		31	Expansion Valves		96
Air Handlers		7	Condensing Units		4,7			
Aluminum Duct		141,142	Conduit		118	F	F	F
Ameritherm		1	Contactors		53,54,87	Fan Coil		7
Amp Meter		104,105,106	Continuity Testers		38	Fan & Limit Controls		50
Amprobe		105,106	Control Tape		98	Fan Relays		4,52
Anti-Short Cycle Timer		59	Copper Fittings		89-91	Fasco		43-46,84
Appliance Thermostats		61	Copper Pipe		91	Filter		
Attic Vents		81	Core Removal Tool		66,101	Dryers		94,96
Auto Flo		25,26,27	Coupling Kits		8	Grills		122
Aviation Snips		109,111	Crown Boilers		23	Racks		14
						Sentinal		119
B	B	B	D	D	D	Fin Combs		98
B - Vent		147,148	Dayton		71-83	Fireplaces		150-154
Ball Tip Wrench		113	Defrost Timers		65	Flare Fittings		93-95
Bard		41,42	Direct Drive Blowers		69-71	Flaring Tool		107
Baseboard			Disconnect Switch		82	Flashlights		38,97
Electric		33,34	Draft Diverters		140	Flex Duct		134,141
Hot Water		23	Draft Inducers		145	Flue		
Bathroom Vents		45	Drill Bits		110,112	A-Vent		149
Batteries		38	Dryer Vent		141,142	B-Vent		146-148
Blowers			Duct		125-142	Damper		1,14
Bearings		67,68	Duct Boosters		145	Fresh Air Control		115
Direct Drive		69,71	Duct Liner		134	Fresh Air Damper		144
Hardware		70	Duct Tape		117			
Pulleys		69	Duct Wrap		134	G	G	G
Shafts		68				Galvanized Sheets		139
Speed Controls		68	E	E	E	Gas		
Blower Modules		3	Electric			Boilers		21,23
Boilers		159-21-23	Baseboard		33,34	Conversion Burners		19
Bramac		32	Duct Heater		39,40	Detectors		104
Brass Fittings		93,95	Furnaces		16	Furnaces		13-15,150
Bright Star		38	Unit Heaters		36	Pressure Test Kit		56
Bristol		85	Wall Heaters		35	Unit Heaters		20
			Water Heaters		24	Valves		55,56
C	C	C	Fittings		116,118	Wall Heaters		20
Capacitors		57,58	Tape		117	Water Heaters		24
Capacitor Testers		103	Testers		38,103,104	Gemline		59-66
Ceiling Shutter		83,84	Electromode		33-37	General Filter		29
Central Vacuum		43,44	Electronic			Grills & Registers		120,124
Chimney			Air Cleaner		2,25,27	H	H	H
A - Vent		149	Charging Meter		103	Hammers		110,111
B - Vent		146-148	Ignition		56	Hand Cleaner		114
			Leak Detector		103,104			
			Sight Glass		103			

H	H	H	O	O	O	S	S	S
Hard Start Kit	4,7,62		Oil Furnaces	14,17,150		Slope Coils		7
Heat Gun	100					Snap Discs		60-61
Heat Pumps	10-12,41,42		P	P	P	Snips		109-111
Heat Pump Bases	32					Solder		91-92
Heattilator	151,152		Packaged Cooling Units	6		Soldering Flux		92
Hex Drivers	113		Parker Hannifin	94-96		Steam Boilers		22
Hex Keys	109,113		Pilot Lighter	47,61		Strip Chart Recorders		106
Honeywell	48-56		Plastic Fittings	32		Subbases		3,48,51
Horizontal Coils	5,8		Plastic Tubing	32		Sump Pump		31
Hot Water			Pliers	110		Superior		153,154
Baseboard	23		Power Roof Vents	3		Sure Shot		7
Boilers	21,23		Pre-Charged Tubing	81		Swagging Tools		108
Humidifiers	25,26,29		Pulleys	69				
Humidstats	25,29,52		Pumps			T	T	T
I	I	I	Circulator	79		Tape		
Insulated Tubing	8		Condensate	31		Electrical		117
Insulation	102,134		Heat	10-12,41,42		Duct		117
			Sump	31		T & P Relief Valves		77
K	K	K	Vacuum	87		Thermometers		101,104,106
Kitchen Vents	46		R	R	R	Thermostats		3,16,37,48-51,55,60,61,63,64
Klixon	60,61		Raintite Disconnect	82		Thermostat Guards		47,119
			Reciprocating Saw	115		Thermostat Wire		118
L	L	L	Refrigerant	88		TIF		103,104
Lau	67-70		Refrigerant			Time Delay Controls		59
Leak Detector	88,103,104		Charging Cylinders	100		Tjerlund		145
Levels	113		Charging Hoses	99		Tools		
Limits	60,61		Charging Manifolds	99		Core Removal		66
Line Taps	93,98		Leak Detectors	88,97		Flaring		107
Little Giant	31		Registers	120-124		Hammers		110,111
M	M	M	Relays	52,53,86		Hex Keys		109
Malco	107,115		Rivets	110		Malco		107-115
Mars	86-87		Riveters	112		Pliers		110
Megohmmeter	106		Robinair	99-101		Pouches		113
Metal Fab	146-148		Roof Curbs	6,75		Robinair		99-101
Metal Flex	141		Roof Top Units	10		Sheet Metal		109-114
Mobile Home Units	9		Rules & Tapes	110,112		Snips		109-111
Motors			Ruud Water Heaters	24		Swagging		108
Blower	71-73		S	S	S	Tape Measures		110-112
Circulating Pump	79		Safety Solvent	102		Tubing Cutters		108
Condebser Fan	66,73,74		Sail Switches	52		Wrenches		109-110
Evaporator Fan	65		Saw Blades	110,112,115		Transformers		48
Skeleton Frame	62		Scale Remover	102		Trigger Sprayer		102
Multimeters	105		Scratch Awls	114		Triton		2
			Screws	114		Trol-A-Temp		143-144
O	O	O	Screw Drivers	114		Twin Pak		9
Odor Control System	54		Sealtite	117		U	U	U
Oil			Sealtite Fittings	117		Unit Heaters		
Vacuum	88		Sheet Metal	125-142		Electric		36
Zoom Spout	97		Sight Glasses	94		Gas		20
			Singer	33-37		Utica		21-23
			Skuttle	115-119				
			Sling Psychrometer	104				

V	V	V	W	W	W	W	W	W
Vacuum, Central	43,44	Wagner	97,98	Wattmeter	103			
Vacuum Pumps	87	Wall Heaters	18,35	Window Air Conditioners	160			
Vacuum Pump Oil	88	Wall Shutters	75	Wood Furnaces	150			
Vapco	102	Warm Air Duct & Fittings		Wrenches	109,110			
Vent Damper	1		125-144					
Ventamatic	81	Warren	39,40	XYZ	XYZ	XYZ		
Ventilators	45,46,75	Water Heaters	24					
Voltage Testers	38,106	Water Heater Elements	77,78	Yukon	150			
Volume Air Balancer	103	Water Heater Thermostats	60,78	Zone Dampers	143,144			
		Water Softners	30	Zone Valves	55			



The Finest in
ELECTRIC HEAT

'ELEC-T-THERM' ELECTRIC BOILER FOR FORCED HOT WATER HEATING

SPECIFICATIONS

BOILER SIZE	KW RATING	BTU/HR.		NO. & SIZE HEATER ELEMENTS	AMPS			WATTS AT 240 V	EACH	
		GROSS	NET		TOTAL	CIRCUIT				
						1	2	3		
EB4-12	12	40,956	35,632	(3)-4KW	52	35	17	—	12,000	\$ 1262.00
EB4-16	16	54,608	47,508	(4)-4KW	69	35	34	—	16,000	1283.00
EB4-20	20	68,260	59,386	(4)-5KW	85	43	42	—	20,000	1308.00
EB4-24	24	81,912	71,283	(4)-5KW & (1)-4KW	102	43	42	17	24,000	1515.00
EB4-28	28	95,564	83,140	(4)-5KW & (2)-4KW	119	43	42	34	28,000	1772.00
EB4-30	30	102,400	89,100	(6)-5KW	127	43	42	42	30,000	1826.00

ELECTRICAL CHARACTERISTICS — 120/240 VOLTS A.C. 3 WIRE SINGLE PHASE 60 HZ.

CIRCULATOR MOTOR — 120 V.A.C. 60 HZ. 1.7 AMPS OR .7 AMPS

THERMOSTAT CURRENT — 12, 16, 20 KW UNITS .9 AMPS
24, 28, 30 KW UNITS 1.2 AMPS

BOILER WATER CAPACITY — 1.5 GALLONS

115-P #15 Extrol Tank	EB4-12-16 & 20	93.00
130-P #30 Extrol Tank	EB4-24-28 & 30	107.00

EMERSON QUIET KOOL MODELS ROOM AIR CONDITIONERS

MODEL	BTU	VOLTS AMPS	EER	WIDTH	LENGTH	HEIGHT	EACH
COMPACT							
5HJ7J	5,000	115/7.5	5.9	20"	13 3/4"	13 1/2"	\$ 414.00
COMPACT CUSTOM							
8EJ1W*	8,000	115/11.5	6.4	20"	17 1/4"	13 1/2"	483.28
8HJ1W	8,000	115/12.0	6.0	20"	17 1/4"	13 1/2"	590.88
MODULAIRE							
10EH1E*	10,000	115/12.0	7.3	25"	21 1/2"	13 3/4"	602.42
10FS1E*	10,000	115/12.0	7.6	25"	21 1/2"	13 3/4"	642.12
12HH1E	11,550	115/12.0	7.8	25"	21 1/2"	13 3/4"	846.72
15FH4W*	15,000	208/230	6.2	25"	21 1/2"	13 3/4"	710.88
15HH4W	14,700	208/230	7.0	25"	21 1/2"	13 3/4"	899.76
17HH4W	17,000	208/230	6.1	25"	21 1/2"	13 3/4"	899.76
DYNAMIC							
14FD1E*	13,600	115/12.0	9.3	26 1/2"	23 5/8"	17 1/4"	909.72
21HC4W	20,650	208/230	6.5	26 1/2"	23 5/8"	17 1/4"	1075.44
24HC4W	23,650	208/230	6.6	26 1/2"	23 5/8"	17 1/4"	1186.56
27HD4W	26,600	208/230	6.4	26 1/2"	23 5/8"	17 1/4"	1305.36
SPACE MODULE							
6WIXO	5,900	115/9.5	5.5	25"	18 1/2"	14 1/4"	635.28
8WIXO	8,100	115/12.0	5.9	25"	18 1/2"	14 1/4"	692.16
10W4XE	9,900	208/230	6.5	25"	18 1/2"	14 1/4"	749.76
10W4AE	9,900 H/C	208/230	6.5	25"	18 1/2"	14 1/4"	798.48
12W4XO	11,900	208/230	5.1	25"	18 1/2"	14 1/4"	799.44
12W4AO	11,900 H7C	208/230	5.1	25"	18 1/2"	14 1/4"	847.92
ACCESSORIES							
A30701	SLEEVE FOR SPACE MODULE -----						\$ 60.00
A30409	WINDOW MOUNTING KIT 29" TO 40 " -----						60.00
A30428	WINDOW MOUNTING KIT 27" TO 40" -----						46.80
A30221	ADAPTER KIT TO FEDDERS SLEEVE -----						24.00
A30511	ADAPTER KIT TO WHIRLPOOL SLEEVE -----						43.20
A30531	ADAPTER KIT TO GENERAL ELECTRIC SLEEVE -----						96.00

* LIMITED STOCK

MULTIPLE UNIT PRICING FOR SPACE MODULE UPON REQUEST